

MERIDIAN OIL

September 29, 1988

RECEIVED
OCT 09 1988

State of Utah Natural Resources
Oil, Gas and Mining
355 W. North Temple
3 Triad center, Ste 350
Salt Lake City, Utah 84180-1203

DIVISION OF
OIL, GAS & MINING

Attention: Arlene Sollis

Re: Applications for Permit to Drill
 { 11-19 Havasu-Federal
 12-19 Havasu-Federal
 12-19A Havasu-Federal
 Section 19-38S-24E
 San Juan County, Utah
 Federal Lease No. U-56186

Gentlemen:

Enclosed are three copies of Form 3160-3, Application for Permit to Drill with attachments for each the above referenced locations.

An appropriation application is in progress to obtain water for drilling these wells from the soon to be converted water source well, Wash No. 2, located 470' FSL, 850' FEL, Section 13, T38S, R23E.

If you have any questions, please do not hesitate to call me at 406-256-4122.

Sincerely,



Suzann S. Nelson
Sr. Operations Technician

/ssn/1771N

Encl

cc: Bill Mitchell

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

2. NAME OF OPERATOR

MERIDIAN OIL INC.

3. ADDRESS OF OPERATOR

P. O. Box 1855, Billings, MT 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State laws or regulations)

At surface

SWNW (2520' FNL - 200' FWL)

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

5 miles northwest of Hatch Trading Post

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

200'

16. NO. OF ACRES IN LEASE

3427.68

17. NO. OF ACRES ASSIGNED
TO THIS WELL

N/A

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

700'

19. PROPOSED DEPTH

6050'

Ismay

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5115' GL (graded)

22. APPROX. DATE WORK WILL START*

November 28, 1988

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	54.5	80'	Redi-Mix to surface
11	8-5/8	24	1970'	Cement to sfc w/495 sx
7-7/8	5-1/2	15.5	6050'	Single stage. TOC @ 1900'
				Caliper log + 25% excess

Oil and Gas Order No. 1

Attachments:

- EXHIBIT "A" - Survey Plat
- EXHIBIT "B" - Eight Point Drilling Program
- EXHIBIT "C" - BOP Diagram
- EXHIBIT "D" - Thirteen Point Surface Use Plan
- EXHIBIT "E" - Vicinity Map
- EXHIBIT "G" - Cross-Sections
- EXHIBIT "H" - Rig Layout

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

DAS 9/29/88

SIGNED

R. Hamer

TITLE

Regional Drilling Engineer

DATE

9/29/88

(This space for Federal or State office use)

PERMIT NO.

43-037-31459

APPROVAL DATE

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

APPROVED BY

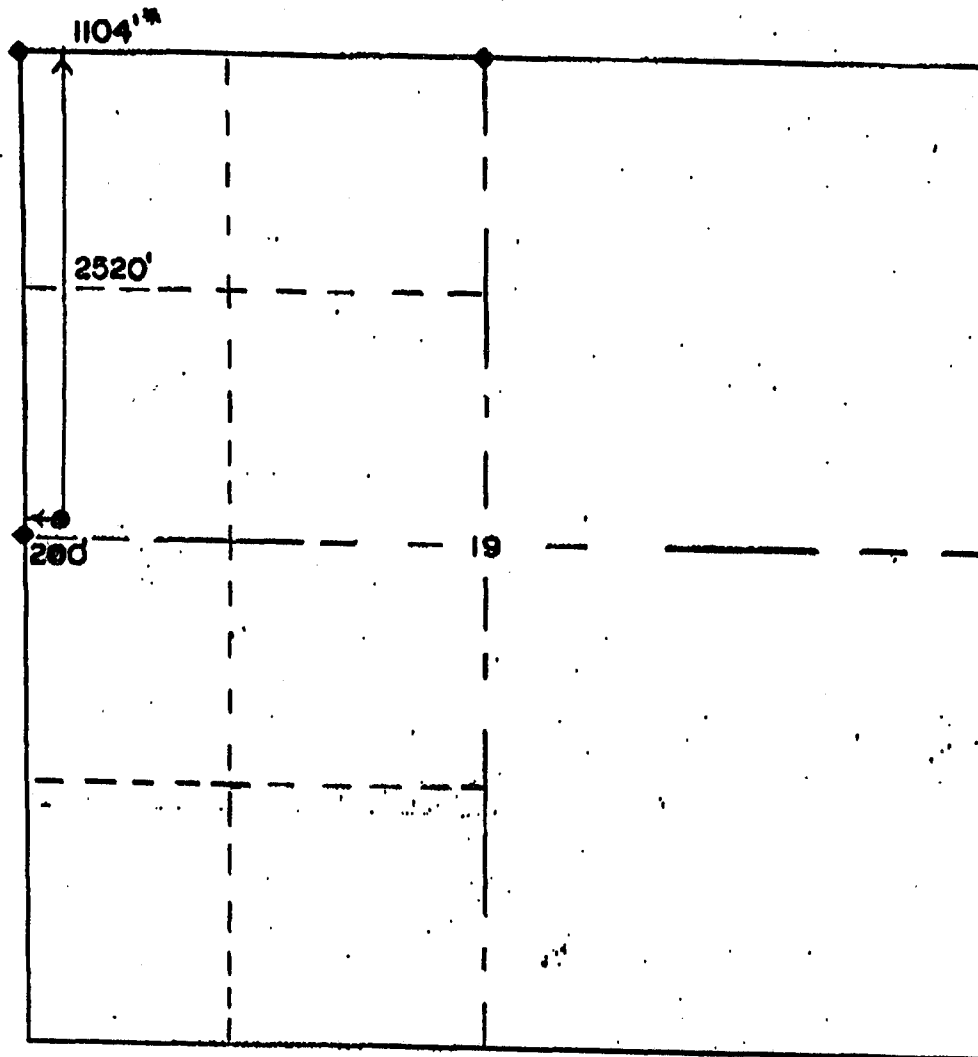
TITLE

CONDITIONS OF APPROVAL, IF ANY:

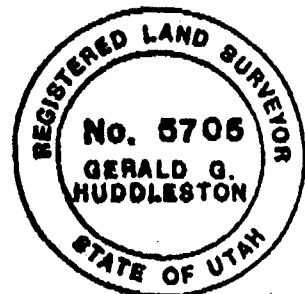
DATE 10-16-88
BY: R. Hamer
WELL SPACING: R615-2-3

*See Instructions On Reverse Side

Well Location Plat



WELL LOCATION DESCRIPTION:
 Meridian Oil, # 12-19A Havasu Federal
 2520' FNL & 200' FWL
 Section 19, T.38 S., R.24 E., SLM
 San Juan County, Utah
 5115' ground elevation
 Alternate: 2650' FN & 150' FW, 5117' grd.



The above plat is true and correct to my knowledge and belief.

5 September 1988

Gerald G. Huddleston
 Gerald G. Huddleston, LS

EXHIBIT "B"

OIL AND GAS ORDER NO. 1

MERIDIAN OIL INC.

LEASE NAME: 12-19A Havasu-Federal
LEASE NO. U-56186
LOCATION: SWNW Section 19-38S-24E
2520' FNL - 200' FWL
San Juan County, Utah
Kachina Field

All lease/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to ensure compliance.

A. EIGHT POINT DRILLING PROGRAM1.& 2. Estimated Tops:

Morrison	Surface	
Entrada	792	
Navajo	977	fresh water
Chinle	1927	
Shinarump	2907	
Cutler	3017	
Hermosa	4777	
Upper Ismay	5807	oil
TD	6050	

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth, cased, and cemented.

3. Pressure Control Equipment:

- a. A 3000 psi WP wellhead will be installed on the surface casing. A 3000 psi WP Annular preventer and 3000 psi WP double gate preventer equipped with blind and pipe rams will be nipped up on wellhead. Annular preventer will be tested to 1500 psi against casing. Pipe and blind rams, choke line and manifold will be tested at 500 psi and 2000 psi (low pressure/high pressure) against casing. Casing will be tested to 1500 psi prior to drilling float shoe.
- b. BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventor controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

4. Casing program:

Anticipated cement tops will be reported as to depth, not the expected number of sacks.

Hole Size	Casing Size	Depth	Casing				Cementing Program
			Weight	Grade	Thrd	Cond	
17-1/2	13-3/8	80'	54.5#	H-40	ST&C	New	Redi-Mix to Surface
11	8-5/8	1,970'	24#	K-55	ST&C	New	Cement to sfc w/495 sx.
7-7/8	5-1/2	6,050'	15.5#	K-55	LT&C	New	Single stage. TOC @ 1900'. Caliper log + 25% excess.

5. Proposed drilling mud program:

A water base mud system from surface to TD. Maximum anticipated mud weight is 9.0#/gallon.

A mud logging unit will be on location from 4500' to TD.

6. Coring, Logging and Testing Program:

Coring

None

Logging

GR/DLL/MSL

Base surface casing to TD (GR to surface)

GR/FDC/CNL

Base surface casing to TD

Testing

None

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Moab District Manager.

7. Anticipated abnormal BHP or BHT:

No abnormal BHP or BHT are expected in this well.

Potentially hazardous conditions anticipated:

No H₂S has been found, reported or is known to exist at these depths in this area.

8. Anticipated Starting Dates and Notifications of Operations

Required verbal notifications are summarized in Table I, attached. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within twenty-four (24) hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6, "Monthly Report of Operations", starting with the month in which operations commence and continuing each month until the well is physically plugged and abandoned. This report will be filed directly with the BLM, Moab District Office, P. O. Box 970, Moab, Utah 84532.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A.

Should the well be successfully completed for production, the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than 5 business days following the date on which the well is placed on production.

A first production conference will be scheduled within fifteen (15) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

A "Subsequent Report of Abandonment" (Form 3160-5), will be filed with the District Manager, within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

O&G Order No. 1
12-19A Havasu-Federal
1957N/Page 4

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The marker will be constructed as follows:

Above ground pipe, information beaded-on with a welding torch. The top of the marker will be closed or capped.

The following minimum information will be permanently placed on the marker with a plate, cap, or beaded-on with a welding torch: "Fed" or "Ind", as applicable. "Well number, location by 1/4 1/4 section, township and range". "Lease number".

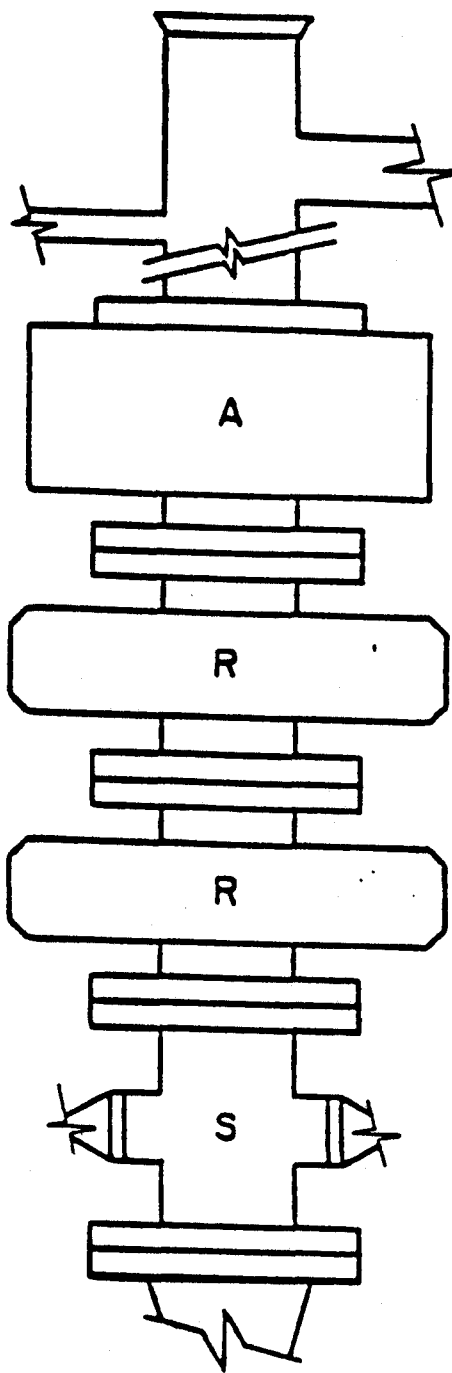


FIG. 2.C.5
ARRANGEMENT SRRA
Double Ram Type Preventers, R_d , Optional.

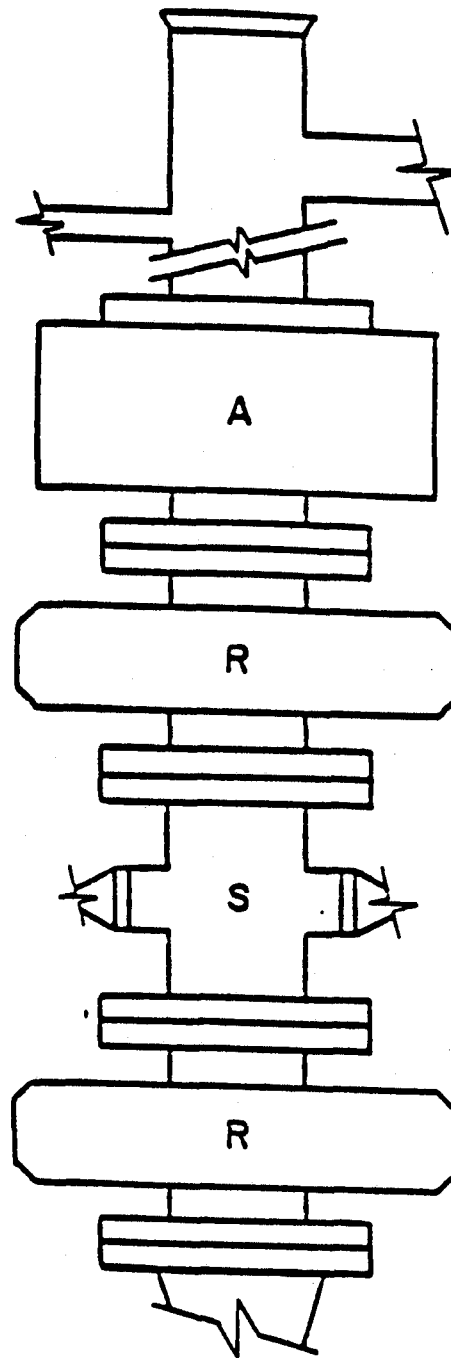


FIG. 2.C.6
ARRANGEMENT RSRA

TYPICAL BLOWOUT PREVENTER
ARRANGEMENTS FOR 3M AND 5M RATED
WORKING PRESSURE SERVICE—
SURFACE INSTALLATION

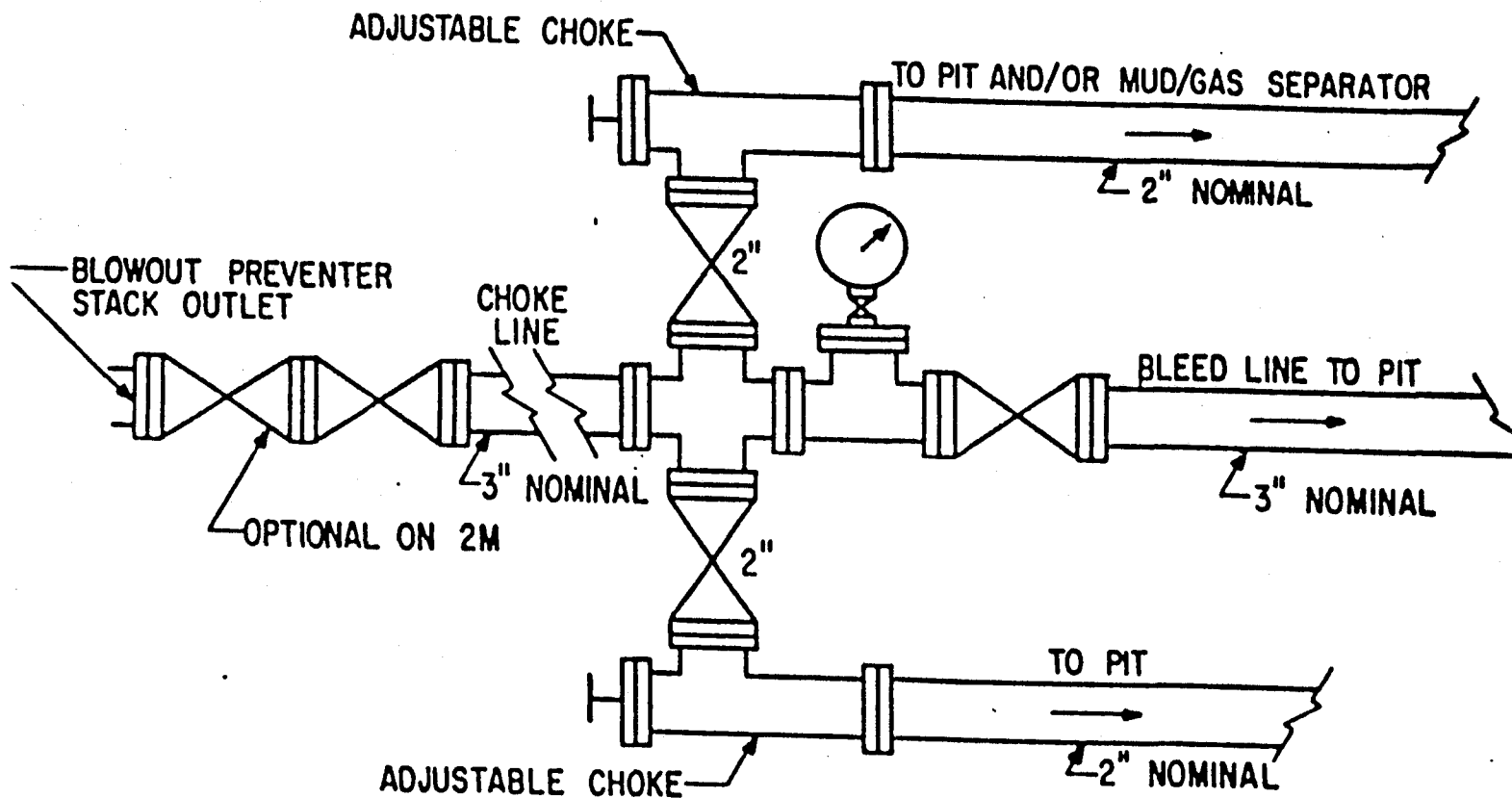


FIG. 3.A.1

**TYPICAL CHOKES MANIFOLD ASSEMBLY
FOR 2M AND 3M RATED WORKING
PRESSURE SERVICE — SURFACE INSTALLATION**

EXHIBIT "D"

B. THIRTEEN POINT SURFACE USE PLAN

1. Existing Roads (Yellow)

- a. Location of proposed well in relation to town or other reference point:
5 miles northwest of Hatch Trading Post.
- b. Proposed route to location. (See attached Exhibit "E").
- c. Maintenance of existing lease roads.

2. Planned Access Roads (Blue)

- a. The maximum total width will be thirty (30) feet.
- b. Maximum grade is N/A.
- c. Turnouts will be constructed as needed.
- d. Road is centerline flagged in pink from Havasu-Federal 12-19 well.
- e. Road will be drained with one (1) 18" x 30' culvert in drainage on road between 12-19 and 12-19A wells.
- f. Surface materials will consist of road being rocked during upgrading after flowline is buried parallel to road.
- g. Surface disturbance and vehicular travel will be limited to the approved location and approved access road. Any additional area needed will be approved in advance by the Area Manager.
- h. Road Right-of-Way will be required from BLM to access through the NE1/4 NE1/4 Section 24, T38S, R23E (Oil & Gas Lease U-20895).
- i. The access road will be rehabilitated or brought to Resource (Class III) Road Standards within sixty (60) days of dismantling of the drilling rig. If this time frame cannot be met, the Area Manager will be notified so that temporary drainage control can be installed along the access road.

3. Location of Existing Wells (1 mile radius)

- a. Existing wells in the area are shown on attached Exhibit "E".

4. Location of Existing and/or Proposed Facilities if Well is Productive

All permanent (onsite for six (6) months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5-State Interagency Committee.

All facilities will be painted within six (6) months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. The color will be Desert Tan with Brown trim.

The tank battery at the Havasu-Federal 22-19 well will be used for production. A separator at the 22-19 battery will estimate individual well production during the on-lease commingling.

The flowline to the 22-19 battery will be buried at least thirty (30) inches deep and six (6) feet deep under Alkali Wash. The flowline will go east from the 12-19A location, parallel the 12-19 flowline and then go NE to the 22-19 battery. (See attached Exhibit "E").

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the largest tank in the battery.

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

Gas meter runs for each well will be located within five hundred (500) feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and downstream for the remainder of the pad. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three (3) months on new meter installations and at least quarterly thereafter. The Area Manager will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Resource Area Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply

All water needed for drilling purposes will be hauled by Hay Hot Oil Service, a commercial water hauler, from a private source.

A temporary water use permit for this operation will be obtained from the Utah State Engineer, Mark Page, Price, Utah (657-1303).

Water obtained on private land, or land administered by another agency, will require approval from the owner or agency for use of the land.

6. Source of Construction Materials

Native soil materials from drilling location and access trail, which is available, will be used. Any additional materials needed will be hauled in from authorized commercial sources.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.1-3.

7. Methods for Handling Waste Disposal

The reserve pit will not be lined.

Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.

All trash must be contained and disposed of by a trash basket on location.

If burning is required, a permit will be obtained from the San Juan County Sheriff Office, George Kensley (801)-587-2237. (Permit required May 1 - October 31).

Produced waste water will be confined to a (unlined) pit for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).

8. Ancillary Facilities

Camp facilities will not be required.

9. Well Site Layout

Rig layout is shown on attached Exhibit "H".

Cuts and fills are shown on attached Exhibit "G".

The reserve pit will be located on the Southeast side of location.

The top four to five (4-5) inches of soil material will be removed from the location and stockpiled separately on the right side (trailer house side) of the location.

Topsoil along the access will be reserved in place adjacent to the road.

Access to the well pad will be from the rear end of the location (East end).

10. Plans for Restoration of Surface:

Immediately on completion of drilling, the location and surrounding area will be cleared of all remaining debris, materials, trash and junk not required for production.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry.

All disturbed areas will be recontoured to to the approximate natural contours.

The stockpiled topsoil will be spread evenly over the disturbed contours.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface. Rip six (6) inches deep with rips eighteen (18) inches apart.

Seed will be broadcast at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage. (October 1 - February 28).

The following seed mixture will be used on the buried flowlines and on location when reclaimed:

<u>1/2</u>	lbs/acre Sand dropseed
<u>1/2</u>	lbs/acre Alkali Sakaton
<u>3</u>	lbs/acre Fourwing saltbush
<u>6</u>	lbs/acre Domestic Wheat

The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed.

11. Surface Ownership: Federal
Mineral Ownership: Federal

12. Other Information

Avoid the archaeological sites flagged in blue (near drainage on road between 12-19 and 12-19A wells).

Surface disturbance during flowline construction will be thirty (30) feet wide or less.

Flowlines also mentioned under Item #4.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.3-2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

The dirt contractor will be provided with an approved copy of the Surface Use Plan.

All persons in the area who are associated with the project will be informed by the Operator that they will be subject to prosecution for disturbing archaeological sites or paleontological sites, or collecting artifacts or fossils.

Any cultural and/or paleontological resource discovered by the operator, or any person working on his behalf, on public or federal land shall be immediately reported to the authorized office (BLM-San Juan Resource Area Office (801) 587-2141). The operator shall immediately suspend all operations in the area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The operator will be responsible for the cost of evaluation of the discovery and of any required mitigation measures. Any decision as to proper mitigation measures will be made by the authorized officer after consulting with the operator and other affected parties.

This permit will be valid for a period of one (1) year from the date of approval. After permit termination a new application will be filed for approval for any future operations.

If at any time the facilities located on public land authorized by the terms of the lease are not longer included in the lease (due to a contraction in the unit or other lease or unit boundary change) the BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental, or other financial obligation determined by the authorized officer.

13. Lessee or Operator's Field Representative and Certification

Meridian Oil Inc.
P. O. Box 1855
Billings, Montana 59103

1. Johnny L. Wright, Drilling Manager	406-256-4175	406-252-2889
2. Dan Sodersten, Drilling Engineer	406-256-4073	406-947-5035
3. Douglas R. Harris, Reg. Drilling Eng.	406-256-4025	406-652-2381
4. John Pulley, Completion Supt.	406-256-4124	406-259-6156

CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and, that the work associated with the operations proposed herein will be performed by MERIDIAN OIL INC. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

DAS 9/29/88

D.R. Harris

Douglas R. Harris
Regional Drilling Engineer

9/29/88

Date

/ssn

TABLE 1

NOTIFICATIONS

Notify the San Juan Resource Area, at (801) 587-2141 for the following:

- 2 days prior to commencement of dirt work, construction or reclamation;
- 1 day prior to spudding;
- 1 day prior to running and cementing surface casing;
- 1 day prior to pressure testing of BOPE and/or surface casing.

Notify the Moab District Office, Branch of Fluid Minerals at (801) 259-6111 for the following:

No well abandonment operations will be commenced without the prior approval of the District Manager. In the case of newly drilled dry holes, and in emergency situations, verbal approval can be obtained by calling the following individuals, in the order listed:

Dale Manchester, Petroleum Engineer Office Phone: (801) 259-6111

Home Phone: (801) 259-6239

Lynn Jackson, Chief, Branch of Fluid Minerals

Office Phone: (801) 259-6111

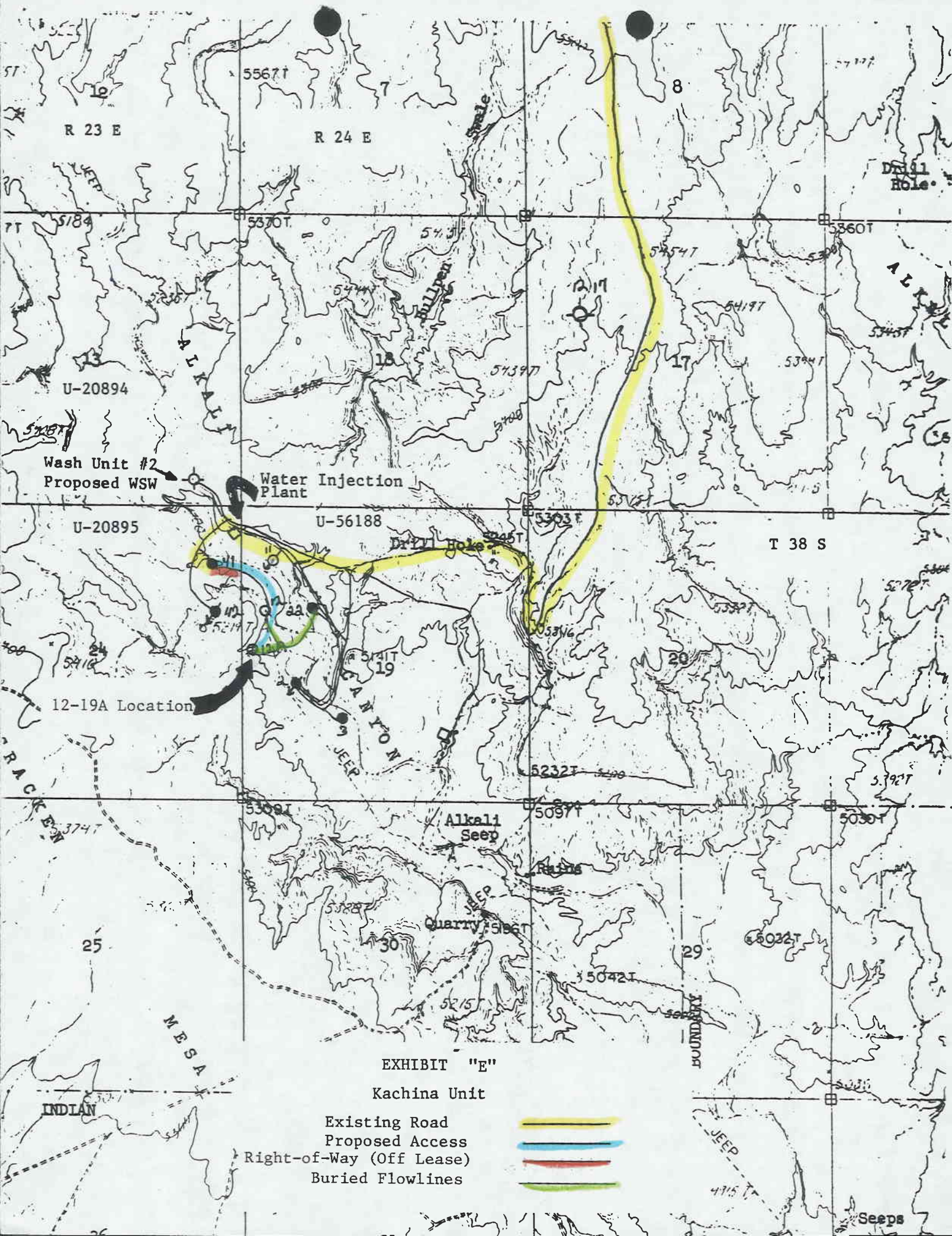
Home Phone: (801) 259-7990

Paul Brown, I&E Coordinator

Office Phone: (801) 259-6111

Home Phone: (801) 259-7018

24 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL ABANDONMENTS.

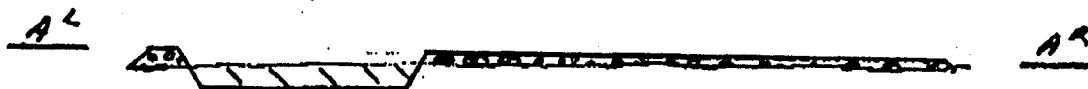
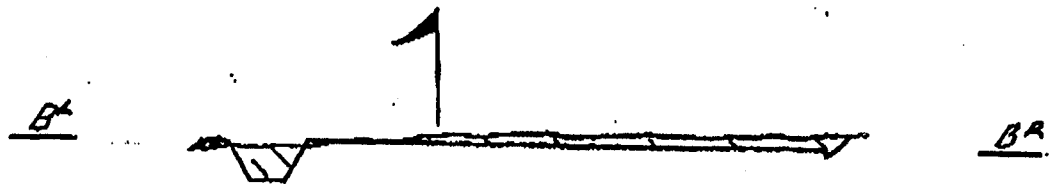
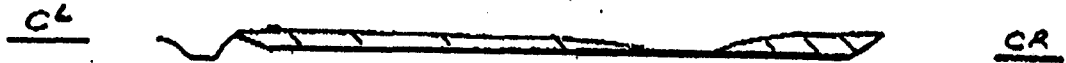


Cross Section

12-19A Havasu Federal

Cut ////
Fill

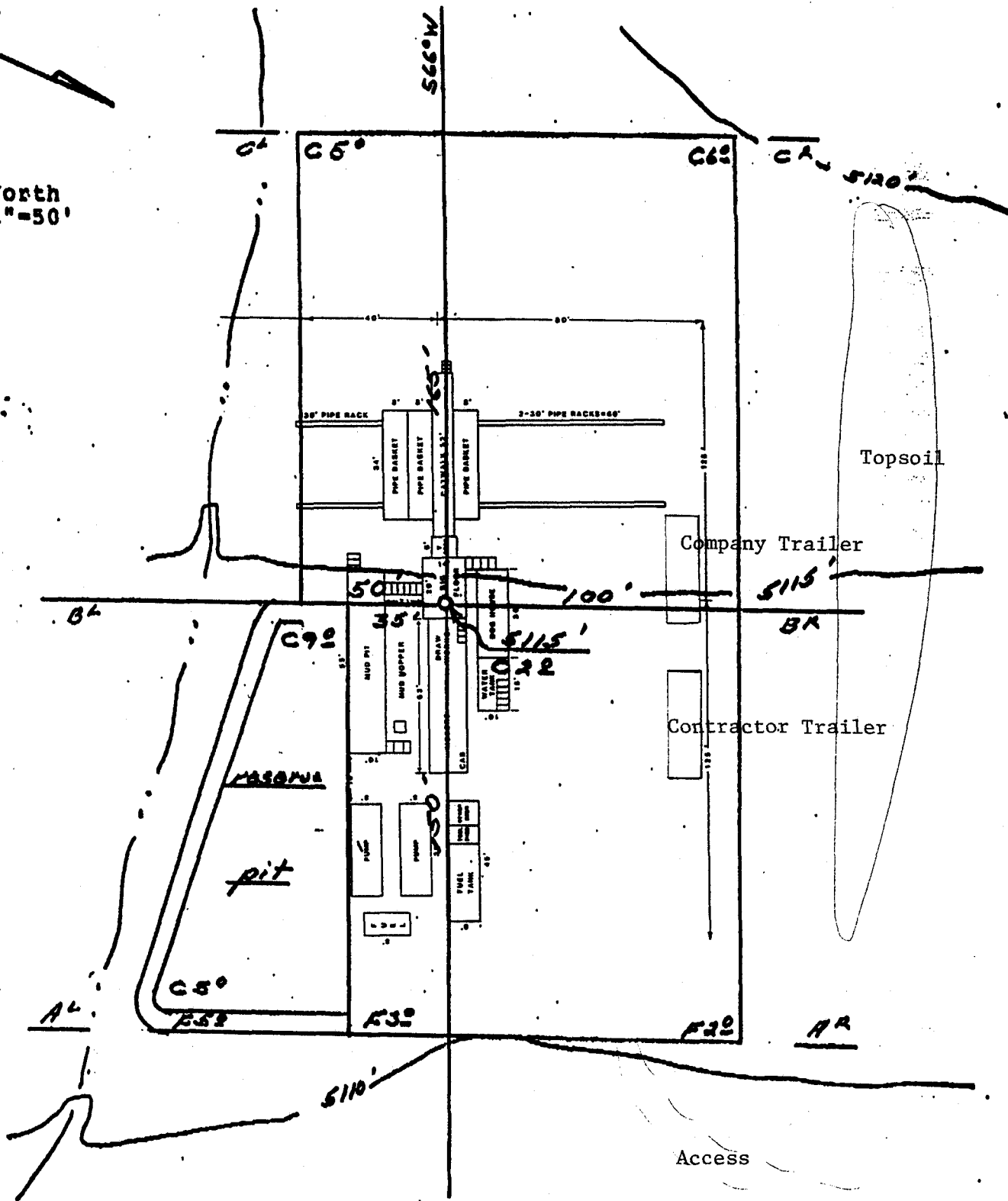
1"=50' Horz. & Vert.



Plan View Sketch

12-19A Havasu Federal

North
1"=50'



CONFIDENTIAL

OPERATOR Meridian Oil Inc. DATE 10-3-88

WELL NAME Havasu Federal 12-19A

SEC S4NW 19 T 38S R 24E COUNTY San Juan

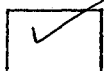
43-037-31459

API NUMBER

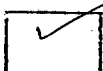
Fed.

TYPE OF LEASE

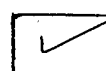
CHECK OFF:



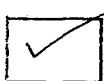
PLAT



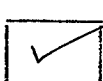
BOND



NEAREST
WELL



LEASE



FIELD



POTASH OR
OIL SHALE

PROCESSING COMMENTS:

Nearest well ok under Unit Agreement

Need Water Permit

Kachina - Secondary Recovery Unit - Lease basis per Btm (Moab)

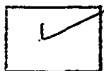
P.O.D. received 1988. (Dale Manchester)

CONFIDENTIAL
PERIOD
EXPIRED

ON 10-01-90

APPROVAL LETTER:

SPACING:



R615-2-3

Kachina Sec. Rec.
UNIT



R615-3-2



CAUSE NO. & DATE



R615-3-3

STIPULATIONS:

1- Water Permit



Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

October 11, 1988

Meridian Oil Incorporated
P. O. Box 1855
Billings, Montana 59103

Gentlemen:

Re: Havasut Federal 12-19A - SW NW Sec. 19, T. 38S, R. 24E - San Juan County, Utah
2520' FNL, 200' FWL

Approval to drill the referenced well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule R615-2-3, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

In addition, the following actions are necessary to fully comply with this approval:

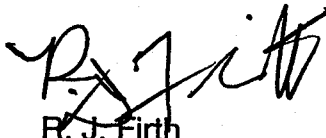
1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form OGC-8-X.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule ~~R615-3-22~~, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2
Meridian Oil Incorporated
Havasu Federal 12-19A
October 11, 1988

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31459.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

lr
Enclosures
cc: Branch of Fluid Minerals
D. R. Nielson
8159T

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

MERIDIAN OIL INC.

3. ADDRESS OF OPERATOR

P. O. Box 1855, Billings, MT 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

SWNW (2520' FNL - 200' FWL)

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

5 miles northwest of Hatch Trading Post

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. 200'
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE
3427.68

17. NO. OF ACRES ASSIGNED
TO THIS WELL
N/A

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 700'

19. PROPOSED DEPTH
6050'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5115' GL (graded)

22. APPROX. DATE WORK WILL START*
November 28, 1988

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	54.5	80'	Redi-Mix to surface
11	8-5/8	24	1970'	Cement to sfc w/495 sx
7-7/8	5-1/2	15.5	6050'	Single stage. TOC @ 1900'

RECEIVED
OCT 24 1988

DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

DAS 9/22/88

SIGNED

D. R. Hansen

TITLE Regional Drilling Engineer

DATE 9/29/88

(This space for Federal or State office use)

PERMIT NO.

43-037-31459

APPROVAL DATE

APPROVED BY

/s/ Gary L. Hansen

ACTING

TITLE

ESTHER BARNER

DATE

OCT 18 1988

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

SUBJECT TO RIGHT OF WAY
APPROVAL

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A

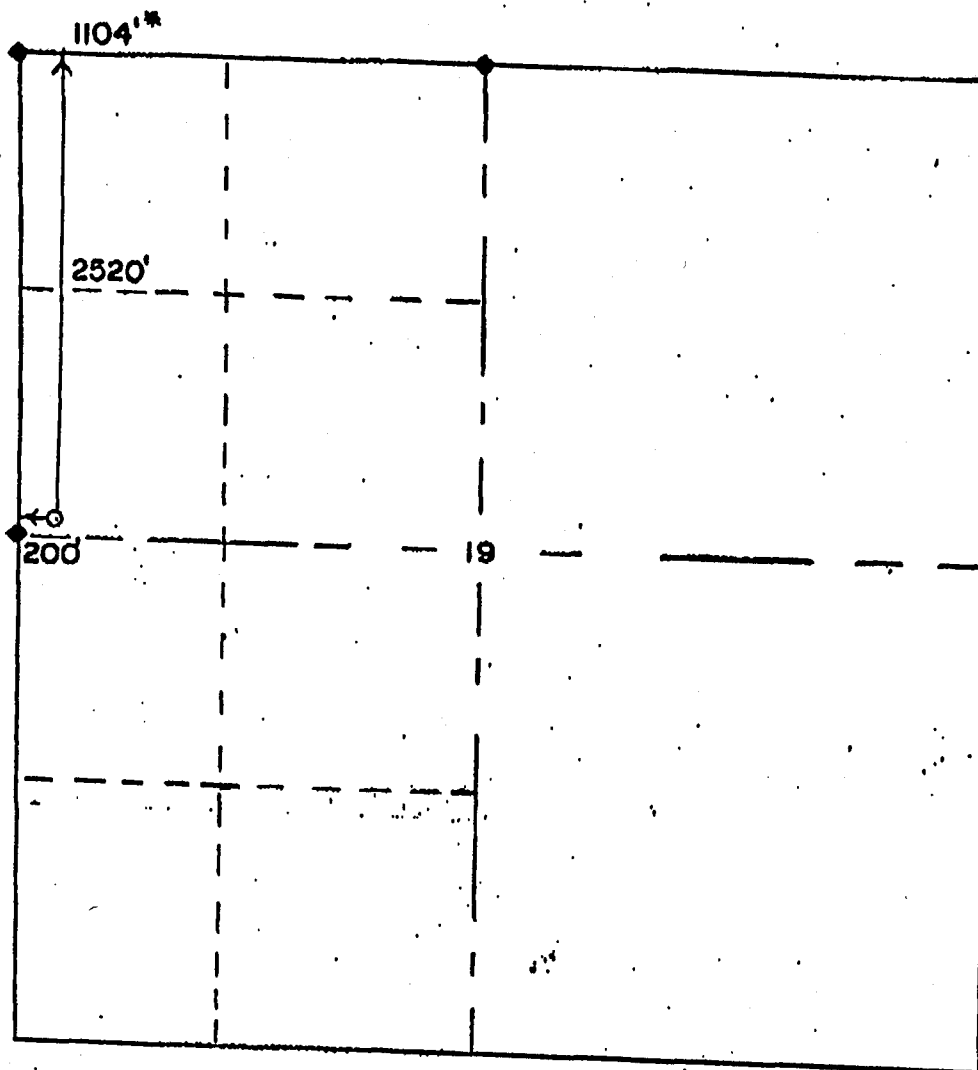
DATED 1/1/80

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH - DOWNS

Well Location Plat

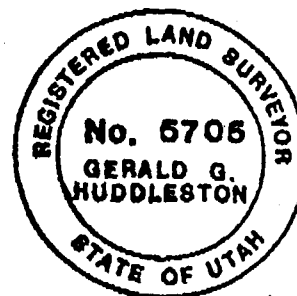


1" = 1000'

+ brass cap

* measured

WELL LOCATION DESCRIPTION:
 Meridian Oil, # 12-19A Havasu Federal
 2520' FNL & 200' FWL
 Section 19, T.38 S., R.24 E., SLM
 San Juan County, Utah
 5115' ground elevation
 Alternate: 2650' FN & 150' FW, 5117' grd.



The above plat is true and correct to my knowledge and belief.

5 September 1988

Gerald G. Huddleston
 Gerald G. Huddleston, LS

Meridian Oil Inc.
Well No. Havasu-Federal 12-19A
Sec. 19, T. 38 S., R. 24 E.
San Juan County, Utah
Lease U-56186

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Meridian Oil Inc., is considered to be the operator of the above well, and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by Bond No. 184986F1871/0-31780 (Principal - Meridian Oil Inc.) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

NOTIFICATIONS

Notify the San Juan Resource Area, at (801) 587-2144 for the following:

2 days prior to commencement of dirt work, construction or reclamation;

1 day prior to spudding;

1 day prior to running and cementing surface casing;

1 day prior to pressure testing of BOPE and/or surface casing.

Notify the Moab District Office, Branch of Fluid Minerals at (801) 259-6111 for the following:

No well abandonment operations will be commenced without the prior approval of the District Manager. In the case of newly drilled dry holes, and in emergency situations, verbal approval can be obtained by calling the following individuals, in the order listed:

Dale Manchester, Petroleum Engineer Office Phone: (801) 259-6111

Home Phone: (801) 259-6239

Lynn Jackson, Chief, Branch of Fluid Minerals

Office Phone: (801) 259-6111

Home Phone: (801) 259-7990

Paul Brown, I&E Coordinator

Office Phone: (801) 259-6111

Home Phone: (801) 259-7018

24 hours advance notice is required for all abandonments.

MERIDIAN OIL

RECEIVED
OCT 26 1988

DIVISION OF
OIL, GAS & MINING

October 24, 1988

State of Utah Natural Resources
Oil, Gas and Mining
355 W. North Temple
3 Triad center, Ste 350
Salt Lake City, Utah 84180-1203

Attention: Arlene Sollis

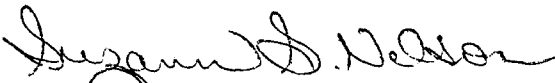
Re: Applications for Permit to Drill
11-19 Havasu-Federal 43-037-31458
12-19 Havasu-Federal 43-037-31457
12-19A Havasu-Federal 43-037-31459
Section 19-38S-24E
San Juan County, Utah
Federal Lease No. U-56186

Gentlemen:

The above referenced Application for Permits to Drill have been approved by your office. "Confidential Status" was inadvertently left off the permits, therefore, we are requesting "CONFIDENTIAL STATUS" for these wells at this time.

If you have any questions, please do not hesitate to call me at 406-256-4122.

Sincerely,



Suzann S. Nelson
Sr. Operations Technician

/ssn/1771N

Encl

cc: Bill Mitchell

WATER PERMIT OK

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPODDING INFORMATION

API NO. 43-037-31459

NAME OF COMPANY: MERIDIAN OIL, INC.

WELL NAME: HAVASU-FEDERAL 12-19A

SECTION SWNW 19 TOWNSHIP 38S RANGE 24E COUNTY SAN JUAN

DRILLING CONTRACTOR AZTEC

RIG # 222

SPODDED: DATE 11/4/88

TIME 4:00 a.m.

How ROTARY

DRILLING WILL COMMENCE

REPORTED BY SUZANN NELSON

TELEPHONE # 406-256-4122

DATE 11/15/88 SIGNED TAS

RECEIVED
NOV 07 1988

ENTITY ACTION FORM - DOGM 10-1-6

OPERATOR MERIDIAN OIL INC.

OPERATOR CODE N 7230

ADDRESS P.O. Box 1855

PHONE NO. 406, 256-4122

Billings, MT 59103-185

CONFIDENTIAL

**DIVISION OF
OIL, GAS & MIN. 3**

OPERATORS MUST COMPLETE FORM UPON SPUDDING NEW WELL OR WHEN CHANGE IN OPERATIONS OR INTERESTS NECESSITATES CHANGE IN EXISTING ENTITY NUMBER ASSIGNMENT.

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	10654		4303731457	12-19 Havasu-Federal	SWNW	19	38S	24E	San Juan	11/02/88	
COMMENTS: <i>Federal Lease Proposed Zone - Ismay</i> <i>Field - Kachina</i> <i>Unit - Kachina-Secondary Rec.</i>											
B	10654		4303731459	12-19A Havasu-Federal	SWNW	19	38S	24E	San Juan	11/04/88	
COMMENTS: <i>Federal Lease Proposed Zone - Ismay</i> <i>Field - Kachina</i> <i>Unit - Kachina-Secondary Rec. (Assign entity 10654, also changed other wells in Unit to same entity)</i> <i>11-17-88 LCR</i>											
COMMENTS:											
COMMENTS:											
COMMENTS:											
COMMENTS:											

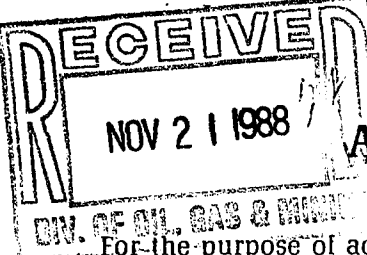
- ACTION CODES:
- A - ESTABLISH NEW ENTITY FOR NEW WELL
 - B - ADD NEW WELL TO EXISTING ENTITY
 - C - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO ANOTHER EXISTING ENTITY
 - D - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO A NEW ENTITY
 - E - OTHER (EXPLAIN IN COMMENTS SECTION)
- (SEE INSTRUCTIONS)

[Signature]
SIGNATURE

Sr. Operations Technician 11/4/88

TITLE DATE

FILING FOR WATER IN THE STATE OF UTAH



NOV 02 1988

OCT 17 1988

Rec. by L.K.
 Fee Rec. 30.00
 Receipt # 25189
 Microfilmed _____
 Roll # _____

APPLICATION TO APPROPRIATE WATER RIGHTS

SALT LAKE

T E M P O R A R Y

PRICE _____

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

* WATER USER CLAIM NO. 09 — 1604

* APPLICATION NO. A T63641

1. PRIORITY OF RIGHT: October 17, 1988

* FILING DATE: October 17, 1988

2. OWNER INFORMATION

Name(s): MERIDIAN OIL INC. * Interest: 100 %
 Address: P.O. Box 1855, Billings, MT 59103
 Is the land owned by the applicant? Yes _____ No X
 (If "No", please explain in EXPLANATORY section.)

3. QUANTITY OF WATER: _____ cfs and/or 2.5 AF ac-ft

4. SOURCE: Wash Unit #2 * DRAINAGE: _____

which is tributary to _____
 which is tributary to _____

POINT(S) OF DIVERSION: _____ COUNTY: San Juan
 Location: SESE (470' FSL - 850' FEL) Section 13, T38S, R23E.
N. 470 ft. & W. 850 ft. from SE Cor. Sec. 13, T38S, R23E, SLB&M

Description of Diverting Works: 9-5/8" casing set @ 1913'
 * COMMON DESCRIPTION: 9 miles NW of Hatch Trading Post Montezuma Creek Quad

5. POINT(S) OF REDIVERSION

The water will be rediverted from N/A at a point: _____

Description of Rediverting Works: _____

6. POINT(S) OF RETURN

The amount of water consumed is _____ cfs or 350 ac-ft
 The amount of water returned is _____ cfs or 0 ac-ft
 The water will be returned to the natural stream/source at a point(s): N/A

7. STORAGE

Reservoir Name: N/A Storage Period: from _____ to _____
 Capacity: _____ ac-ft. Inundated Area: _____ acres
 Height of dam: _____ feet
 Legal description of inundated area by 40 acre tract: _____

* These items are to be complete by Division of Water Rights

8. List any other water rights which are or will supplement this application _____

9. NATURE AND PERIOD OF USE

Stockwatering: From _____ to _____
Domestic: From _____ to _____
Municipal: From _____ to _____
Mining: From _____ to _____
Power: From _____ to _____
Other: Drilling and completing From October 15, 1988 to October 15, 1989
Irrigation: From _____ to _____

10. PURPOSE AND EXTENT OF USE

Stockwatering (number and kind): _____
Domestic: _____ Families and/or _____ Persons
Municipal (name): _____
Mining: _____ Mining District in the _____ Mine
Ores mined: _____
Power: Plant name: _____ Type: _____ Capacity: _____
Other (describe): Drill and complete one injection well and 2 oil wells
Irrigation: _____ acres. Sole supply of _____ acres
Legal description of irrigated area by 40 acre tract: _____

11. PLACE OF USE

Legal description of areas of use other than irrigation, if not the same as irrigated area above, by 40 acre tract: 11-19 Havasu-Federal, NWNW (940' FNL-590' FWL) Section 19, T38S, R25E
12-19 Havasu-Federal, SWNW (1840' FNL-410' FWL) Section 19, T38S, R25E
12-19A Havasu-Federal, SWNW (2520' FNL-200' FWL) Section 19, T38S, R25E
See NOTE below.

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of same size if necessary): Landowner - Federal Lease U-20894. The Wash Unit #2 well will be converted to a water source well prior to the drilling of the three wells. Proposed water formations will be Cutler and Wingate.

The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

D. R. Harris
Signature of Applicant(s)
D. R. Harris
Regional Drilling Engineer

NOTE: #11

- (11-19) 43-037-31458
(12-19) 43-037-31457
(12-19A) 43-037-31459
- 1) 11-19 Havasu Federal: S. 940 ft. & E. 590 ft. from NW Cor. Sec.19, T38S, R25E, SLB&M (NW $\frac{1}{4}$ NW $\frac{1}{4}$)
 - 2) 12-19 Havasu Federal: S. 1840 ft. & E. 410 ft. from NW Cor. Sec.19, T38S, R25E, SLB&M (SW $\frac{1}{4}$ NW $\frac{1}{4}$)
 - 3) 12-19A Havasu Federal: S. 2520 ft. & E. 200 ft. from NW Cor. Sec.19, T38S, R25E, SLB&M (SW $\frac{1}{4}$ NW $\frac{1}{4}$)

TEMPORARY

STATE ENGINEER'S ENDORSEMENT

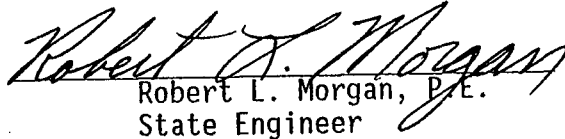
WATER RIGHT NUMBER: 09 - 1604

APPLICATION NO. T63641

1. October 17, 1988 Application received by MP.
 2. November 1, 1988 Application designated for APPROVAL by MP and KLJ.
 3. Comments:
-
-

Conditions:

This application is hereby APPROVED, dated November 18, 1988, subject to prior rights and this application will expire on November 18, 1989.


Robert L. Morgan, P.E.
State Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-56186
2. NAME OF OPERATOR MERIDIAN OIL INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59103		7. UNIT AGREEMENT NAME Kachina
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SWNW (2520' FNL - 200' FWL)		8. FARM OR LEASE NAME Havasu-Federal
14. PERMIT NO. 43-037-31459		9. WELL NO. 12-19A
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5128' KB		10. FIELD AND POOL, OR WILDCAT Kachina
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 19, T38S, R24E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Spud Report/First Production <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Aztec, Rig #222, spudded well @ 4:00 AM November 4, 1988.
First oil production November 29, 1988.

CONFIDENTIAL

RECEIVED
DEC 15 1988

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature]

TITLE Production Superintendent

DATE 12/13/88

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

BLM (3), UOG&M (3), WGB, RES, File

*See Instructions on Reverse Side

MERIDIAN OIL INC.
HAVASU FEDERAL #12-19A
SECTION 19, T38S, R24E
SAN JUAN COUNTY - UTAH

GEOLOGIC REPORT
BY
DAVE MEADE
ROCKY MOUNTAIN GEO-ENGINEERING COMPANY

TABLE OF CONTENTS

WELL SUMMARY - - - - -	3
WELL CHRONOLOGY- - - - -	4
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MUD RECORD - - - - -	6
SHOW REPORTS - - - - -	7
SAMPLE DESCRIPTIONS- - - - -	11
FORMATION TOPS - - - - -	23
GEOLOGIC SUMMARY & ZONES OF INTEREST - - - - -	24

WELL SUMMARY

OPERATOR: MERIDIAN OIL INC.
WELL NAME: HAVASU FEDERAL #12-19A
FIELD: KACHINA
LOCATION: SECTION 19, T36S, R24E

COUNTY/STATE: SAN JUAN, UTAH
ELEVATION: GL 5127' - KB 5141.5'
SPUD DATE: 11/3/88
COMPLETION DATE: 11/15/88
DRILLING ENGINEER: HOWARD BAKER
DRILLING CONTRACTOR: AZTEC WELL SERVICE, RIG #222
TOOL PUSHER: DON LOCKHART
HOLE SIZE: 17½" TO 74'; 12¼" TO 1970'; 7 7/8" TO T.D.
CASING RECORD: 13 3/8" @ 74'; 8 5/8" SET @ 1970'
WELLSITE GEOLOGY: ROCKY MOUNTAIN GEO-ENGINEERING COMPANY
WELLSITE GEOLOGIST: DAVE MEADE
DRILLING MUD COMPANY: SUMMIT DRILLING FLUIDS
MUD ENGINEER: ERIC BERTOCH
ELECTRIC LOGGING CO.: GEARHART
ENGINEER: GILLINGHAM
TYPE OF LOGS: GR/DLL/MSFL/FDC/CNL
MUD LOGGING COMPANY: ROCKY MOUNTAIN GEO-ENGINEERING COMPANY
LOGGING ENGINEER: DAVE MEADE
DRILL STEM TEST: NONE
CORES: NONE
OBJECTIVES: UPPER ISMAY
TOTAL DEPTH: 5960'
WELL STATUS: RUNNING 5½" PRODUCTION CASING

MERIDIAN OIL INC.
 HAVASU FEDERAL #12-19A
 SECTION 19, T38S - R24E
 SAN JUAN COUNTY, UTAH

WELL CHRONOLOGY		
DATE	MIDNIGHT DEPTH	DAILY OPERATIONS
11/03/88 (01)	0	RIG UP, SPUD WELL, DRLG 17 1/2" HOLE
11/04/88 (02)	65	DRLG, CIRC & COND HOLE FOR 13 3/8" CSG, RUN CSG, WOC, DRLG, SURV, DRLG
11/05/88 (03)	605	DRLG, SURV, DRLG, SURV, DRLG, TOH W/BIT #2, 3 CONES IN HOLE, WO MAGNET
11/06/88 (04)	1659	WO MAGNET, TIH W/MAGNET, WASH OVER JUNK, TOH W/ MAGNET, TIH W/MAGNET, TOH W/MAGNET, TIH W/BIT #3 REAMING, TOH W/BIT #3, TIH W/MAGNET, TOH W/MAGNET, TIH W/MAGNET, TOH W/MAGNET, TIH W/JUNK BASKET, TOH, TIH W/BIT #4, DRLG
11/07/88 (05)	1805	DRLG, CIRC & COND FOR 8 5/8" CSG, SURV, TOH, RUN CSG
11/08/88 (06)	1970	WOC, TEST CSG, TEST BOP, TIH, DRLG 7 7/8" HOLE, SURV, DRLG
11/09/88 (07)	2516	DRLG, SURV, DRLG, SURV, DRLG
11/10/88 (08)	3420	DRLG, SURV, DRLG, SURV, DRLG
11/11/88 (09)	4112	DRLG, SURV, DRLG
11/12/88 (10)	4786	DRLG, SURV, TOH W/BIT #5, TIH W/BIT #6, DRLG
11/13/88 (11)	5209	DRLG, SURV, DRLG, MUD UP
11/14/88 (12)	5608	DRLG, REPLACE SWIVEL, DRLG
11/15/88 (13)	5933	DRLG, T.D., CIRC FOR LOGS, TOH, RIG UP LOGGERS, LOGGING, RUN 5 1/2" PRODUCTION CSG

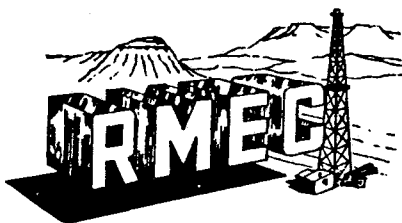
BIT RECORD

WELL NAME: HAVASU FEDERAL #12-19A ELEVATION: GL 5127' KB 5141.5'
CO. NAME: MERIDIAN OIL INC. SECTION: 19, T38S, R24E
CONTRACTOR: AZTEC WELL SVS RIG# 222 CO. & STATE: SAN JUAN COUNTY, UTAH
SPUD DATE: 11/3/88 T.D. DATE: 11/15/88

[illegible]

WELL NAME HAVASU FEDERAL #12-19

[illegible]



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD.

PHONE 243-3044

GRAND JUNCTION, COLORADO 81501

COMPANY MERIDIAN OIL INC.WELL NO. HAVASU FEDERAL #12-19ALOCATION SECTION 19. T38S, R24EZONE OF INTEREST NO. 1INTERVAL: From 5720' To 5746'DRILL RATE: Abv 3 1/2 Thru 1 1/2 - 2 Below 2 1/2 - 3

MUD GAS-CHROMATOGRAPH DATA

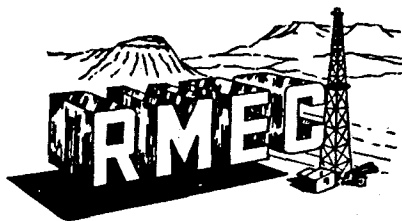
	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	20ppm	574ppm	210ppm	185ppm	60ppm		
During	136ppm	7175ppm	4452ppm	3255ppm	1320ppm		
After	80ppm	2460ppm	1780ppm	1020ppm	600ppm		

Type gas increase: Gradual ☐ Sharp ☒Gas variation within zone: Steady ☐ Erratic ☒ Increasing ☐ Decreasing ☐CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____Sensitivity: Poor ☐ Fair ☐ Good ☒

FLUO: Mineral ☐ Even ☐ Spotty ☒
 None ☐ % in total sample 5-10%
 Poor ☒
 Fair ☒ % in show lithology 30%
 Good ☐ COLOR: dull-bri y gold

CUT: None ☐ Streaming
 Poor ☐ Slow ☒
 Fair ☒ Mod ☐
 Good ☐ Fast ☒
 COLOR: mlky wh

STAIN: None ☒ Poor ☐ Fair ☐ Good ☐ Live ☐ Dead ☐ Residue ☐ Even ☐ Spotty ☐ Lt. ☐ Dk. ☐POROSITY: Poor ☒ Fair ☐ Good ☒ Kind INTXL-PP VUGULARLITHOLOGY DOL bf-tan, ltbrn-brn, crpxl-vfxl, rthy, lmy, anhy w/LS bf-tan, crpxl-micxlIT-rthy, dol anhy SAMPLE QUALITY PoorNOTIFIED Art Moore @ 8:00 p.m. HRS. DATE: 11/14/88REMARKS Very poor sample recovered due to low viscosityZONE DESCRIBED BY DAVE MEADE



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD.

PHONE 243-3044

GRAND JUNCTION, COLORADO 81501

COMPANY MERIDIAN OIL INC.WELL NO. HAVASU FEDERAL #12-19ALOCATION SECTION 19, T38S, R24EZONE OF INTEREST NO. 2INTERVAL: From 5780 To 5790DRILL RATE: Abv 2 1/2 Thru 2 Below 3

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	72	2840	1354	980	420		
During	160	8036	2744	1890	960		
After	90	4970	1645	1276	480		

Type gas increase: Gradual ☐ Sharp ☒Gas variation within zone: Steady ☒ Erratic ☐ Increasing ☐ Decreasing ☐CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____Sensitivity: Poor ☐ Fair ☐ Good ☒

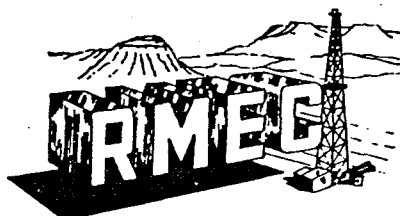
FLUO: Mineral ☐ Even ☐ Spotty ☒
 None ☐ % in total sample 3-5%
 Poor ☒
 Fair ☒ % in show lithology 40
 Good ☐ COLOR: dull-bri y-gold

CUT: None ☐ Streaming
 Poor ☒ Slow ☒
 Fair ☐ Mod ☐
 Good ☒ Fast ☒

COLOR: mlky-wh to y ringSTAIN: None ☒ Poor ☐ Fair ☐ Good ☐ Live ☐ Dead ☐ Residue ☐ Even ☐ Spotty ☐ Lt. ☐ Dk. ☐POROSITY: Poor ☐ Fair ☒ Good ☐ Kind Intxl- pp vug

LITHOLOGY DOL ltbrn, bf, crpxl-micxl, rthy, lmy, anhy & LS wh-brn, micxl-crpxl, rthy-
chk anhy w/ anhy incl SAMPLE QUALITY Poor

NOTIFIED Art Moore @ 8:00 p.m. HRS. DATE: 11/14/88REMARKS Very poor samples due to low viscosityZONE DESCRIBED BY DAVE MEADE



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD.

PHONE 243-3044

GRAND JUNCTION, COLORADO 81501

COMPANY MERIDIAN OIL INC.WELL NO. HAVASU FEDERAL #12-19ALOCATION SECTION 19, T38S, R24EZONE OF INTEREST NO. 3INTERVAL: From 5810 To 5816DRILL RATE: Abv 1 1/2 - 2 Thru 1 Below 2 - 2 1/2

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	106	4100	1890	1400	900		
During	250	10660	4340	3325	1650		
After	170	8610	2940	2100	900		

Type gas increase: Gradual ☐ Sharp ☒Gas variation within zone: Steady ☒ Erratic ☐ Increasing ☐ Decreasing ☐CARBIDE HOLE RATIO: GRAMS
READING X Min. in Peak = _____Sensitivity: Poor ☐ Fair ☐ Good ☒

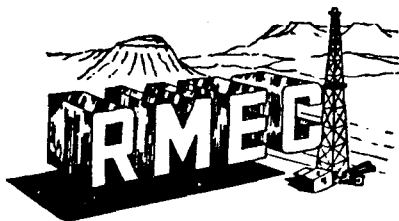
FLUO: Mineral ☐ Even ☐ Spotty ☐
 None ☐ % in total sample 7%
 Poor ☒
 Fair ☐ % in show lithology 25%
 Good ☐ COLOR: dull-bri y-gold

CUT: None ☐ Streaming
 Poor ☐ Slow ☐
 Fair ☒ Mod ☐
 Good ☐ Fast ☒
 COLOR: mlky wh

STAIN: None ☐ Poor ☒ Fair ☐ Good ☐ Live ☒ Dead ☐ Residue ☐ Even ☐ Spotty ☒ Lt. ☒ Dk. ☐POROSITY: Poor ☐ Fair ☒ Good ☒ Kind Intxl-pp vugsLITHOLOGY DOL ltbrn-brn, micxl-vfxl, rthy, sl lmy, occ anhy incl, anhy fl ØSAMPLE QUALITY Poor-FairNOTIFIED Art Moore @ 8:00 p.m. HRS. DATE: 11/14/88

REMARKS _____

ZONE DESCRIBED BY DAVE MEADE



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD.

PHONE 243-3044

GRAND JUNCTION, COLORADO 81501

COMPANY MERIDIAN OIL INC.WELL NO. HAVASU FEDERAL #12-19ALOCATION SECTION 19, T38S, R24EZONE OF INTEREST NO. 4INTERVAL: From 5923 To 5930DRILL RATE: Abv 5 Thru 2 - 3 1/2 Below 4 - 4 1/2

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	90	5289	1176	630	360		
During	220	10504	3416	2030	960		
After	60	2705	1176	840	600		

Type gas increase: Gradual ☐ Sharp ☒Gas variation within zone: Steady ☒ Erratic ☐ Increasing ☐ Decreasing ☐CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____Sensitivity: Poor ☐ Fair ☐ Good ☒

FLUO: Mineral ☒ Even ☐ Spotty ☒
 None ☐ % in total sample 3%
 Poor ☒
 Fair ☐ % in show lithology 30%
 Good ☐ COLOR: fn- dull y

CUT: None ☐ Streaming
 Poor ☒ Slow ☒
 Fair ☐ Mod ☐
 Good ☐ Fast ☐
 COLOR: resid ring cut

STAIN: None ☐ Poor ☒ Fair ☐ Good ☐ Live ☒ Dead ☐ Residue ☐ Even ☐ Spotty ☒ Lt. ☒ Dk. ☐POROSITY: Poor ☒ Fair ☐ Good ☐ Kind IntxlLITHOLOGY DOL m-dkbrn, occ ltbrn, crpxl-micxl, anhy, sl lmy rthy, occ clnSAMPLE QUALITY GoodNOTIFIED _____ @ _____ HRS. DATE: 11/15/88

REMARKS _____

ZONE DESCRIBED BY DAVE MEADE

MERIDIAN OIL INC.
HAVASU FEDERAL #12-19A
SECTION 19, T38S - R24E
SAN JUAN COUNTY, UTAH

SAMPLE DESCRIPTION

4500-4510	ABNT	SS	CVGS
	40%	SH	redorng-redbrn, orng, sbplty-sbblky, sft-mfrm, slsly-sly, sl-nalc, mica, vsldy
	40%	SLTST	redorng-brn, fri-slfrm, mica, sdy, arg, slcalc
	20%	SS	clr-trnsl, vf-fgr, sbang-rd, wsrt, pcmt-uncons, slsly, occ mica
4510-4520	30%	SH	AA
	50%	SLTST	AA
	20%	SS	AA
4520-4530	40%	SS	clr, trnsl, orng, vf-mgr, sbang-sbrd, wsrt, uncons
	40%	SLTST	AA, sl-vsdy
	20%	SH	AA
4530-4540	80%	SS	AA
	20%	SH	AA, sdy
4540-4550	40%	SH	orng, ltgn, redorng-redbrn, sbblky-sbplty, sft, slmica, slsly, sl-nalc, bent ip
	40%	SLTST	redorng-orng, brn, fri-slfrm, mica, slsdy, arg, slcalc
	20%	SS	AA
	TR	LS	orng, pk, crpxl, dns
4550-4560	70%	SLTST	AA
	20%	SH	AA
	10%	LS	AA, wh, rthy, frm
	ABNT	SS	CVGS
4560-4570	60%	SH	AA
	40%	SLTST	AA
	TR	SS	clr, trnsl, orng-redorng, vf-mgr, sbang-sbrd, wsrt, uncons
	TR	LS	AA
4570-4580	50%	SLTST	AA, vsdy ip
	30%	SS	AA, pcmt-uncons, ncalc-sil cmt, cln
	20%	SH	AA
4580-4590	60%	SLTST	pred ltbrn-brn, redorng, ltgy ip, fri-mfrm, sl mica, slcalc, sdy-vsdy, arg
	20%	SH	AA
	20%	SS	clr, trnsl, orng, vf-fgr, sbang-sbrd, wsrt, pcmt-uncons, sl-nalc cmt, slsly, occ mica, NFSOC
	ABNT	SS	CVGS
4590-4600	50%	SLTST	AA
	50%	SH	orng-redorng, redbrn, brn, sbplty-blky, sft-vslfrm, mica, slsly, nalc
	TR	LS	wh-ltgy, orng, redorng, crpxl, frm, rthy, slsly
	ABNT	SS	CVGS
4600-4610	80%	SH	AA
	20%	SLTST	AA, lt-mgy ip
4610-4620	ABNT	SS	CVGS
	60%	SLTST	AA
	20%	SH	AA
	20%	SS	clr-trnsl, vf-fgr, sbrd-rd, sbang ip, wsrt, p-mcmt uncons, sl-nalc, cln, NFSOC
	ABNT	SS	CVGS

MERIDIAN OIL INC.
HAVASU FEDERAL #12-19A

4620-4630	50%	SH AA, ltgygn-ltgn ip, occ sbwxy, bent
	30%	SLTST AA
	10%	SS AA
	10%	LS wh, orng, occ ltgy-ltgybrn, crpxl, mfrm-frm, dns-arg, slsly
	ABNT	SS CVGS
4630-4640	60%	SH AA
	30%	SLTST AA
	10%	LS AA
	ABNT	SS CVGS
4640-4650	30%	SH AA
	50%	SLTST AA
	20%	SS clr, vf-fgr, sbang-sbrd, wsrt, uncon
	ABNT	SH CVGS, redorng
4650-4660	70%	SH orng-redorng, occ gygn, ltgn, sbply-sbply, sft-slfrm, mica, slty, sl-nalc
	30%	SLTST AA
	TR	LS AA
	ABNT	SH CVGS, redorng
4660-4670	40%	SH AA
	50%	SLTST redorng-orng, ltbrn, gygn, fri-slfrm, slcalc, mica, sdy
	10%	SS clr, trns, vf-fgr, sbang-sbrd, wsrt, uncon
	ABNT	SH CVGS
4670-4680	60%	SH AA
	40%	SLTST AA
	TR	SS AA
4680-4690	100%	SH AA
	TR	SLTST AA
	TR	SS AA
	ABNT	SH CVGS
4690-4700	80%	SH AA
	20%	SLTST AA
	TR	LS orng-pk, crpxl, frm, cln-rthy
	ABNT	SH CVGS
4700-4710	50%	SH AA, occ ltgy, slcalc
	50%	LS wh, bf, crpxl, frm, cln-rthy, chk ip, slsly
	TR	SLTST AA
	ABNT	SH CVGS
4710-4720	60%	SH ltgy, redorng, sbply-sbply, sft-frm, mica, slsly, slcalc-calc
	20%	LS AA
	20%	SLTST ltgy, fri, sdy, mica, calc, slarg
	ABNT	SH CVGS
4720-4730	50%	SLTST AA
	40%	SH AA
	10%	LS AA
4730-4740	50%	SS clr-wh, trns, ltgy, vf-mgr, sbang-sbrd, wsrt, uncon
	30%	SLTST AA
	20%	SH AA
	TR	LS AA
4740-4750	40%	SS AA
	60%	SLTST ltgy, fri, mica, slcalc, vsdy, arg
	TR	SH AA

MERIDIAN OIL INC.
HAVASU FEDERAL #12-19A

4750-4760	50%	LS wh-bf,ltgybrn,crpxl,frm,cln-rthy,slsly
	30%	SLTST AA lmy
	20%	SH ltgy,gybrn,occ redorng,blky-sbply,sft-mfrm,slty,mica slcalc-calc
4760-4770	60%	LS AA dns
	20%	SH AA
	20%	SLTST AA
	ABNT	SH CVGS
4770-4780	50%	LS AA vrthy-chky ip
	40%	SH AA
	10%	SLTST AA
4780-4790	50%	SLTST ltgy,gybrn,fri-frm,sdy,lmy,arg,mica
	50%	SH AA
	TR	LS AA
4790-4800	50%	SH AA
	30%	LS wh-bf,ltgy,crpxl,frm-mhd,cln-rthy,chky ip,vslfos
	20%	SLTST AA
	ABNT	SH CVGS
4800-4810	50%	LS AA
	40%	SH ltgy,occ redorng-ltgygn,mot,blky-sbply,sft-slfrm,mica, slcalc-slty
	10%	SLTST AA
	ABNT	SH CVGS
4810-4820	50%	LS AA
	40%	SLTST AA
	10%	SH AA
	TR	CHT trns1 hd
4820-4830	40%	LS wh-bf,ltgy, AA vslfos
	40%	SH AA
	20%	SLTST AA vlmy-vshly
4830-4840	50%	LS AA
	50%	SH AA
	TR	SLTST
	ABNT	SH CVGS redorng-orng
4840-4850	40%	LS AA
	40%	SH AA
	20%	SLTST ltgy,fri,mica,calc,arg,slsdy
	ABNT	CVGS
4850-4860	80%	LS wh-bf,ltgy-ltbrn,crpxl-micx1,mfrm-frm,rthy-cln,slsly, chky ip
	20%	SH AA
	TR	SLTST AA
4860-4870	70%	LS AA
	30%	SH lt-mgy,blky-sbply,sft-frm,mica,slcalc-calc,slsly
	TR	SLTST AA & TR CHT trns1-clr,hd
4870-4880	40%	LS AA
	40%	SH AA
	20%	SLTST AA
4880-4890	40%	LS wh-bf,ltgy,crp-micx1,frm-mhd,rthy-cln,vslsly ip
	40%	SH AA
	20%	SLTST AA
	ABNT	CVGS (VPS)
4890-4900	60%	SH ltgy,occ mgy-ltgybrn,sbply,sft-mfrm,slsly,slcalc,mica
	30%	SLTST ltgy,ltgybrn,fri,sdy,lmy,slmica
	10%	LS AA
	ABNT	SS CVGS

MERIDIAN OIL INC.
HAVASU FEDERAL #12-19A

4900-4910	50%	SH AA
	30%	LS AA
	20%	SLTST AA
4910-4920	60%	LS wh-bf,ltbrn,ltgybrn,crp-micxl,frm-mfrm,cln-rthy,occ chky,slfos
	40%	SH AA
	TR	SLTST AA
4920-4930	80%	SLTST ltgy,ltgybrn,fri-frm,vlmy,slsdy,arg,mica ip
	20%	LS AA
	TR	SH AA
	ABNT	SS CVGS
4930-4940	50%	SLTST AA
	50%	LS AA
	TR	SH AA
4940-4950	60%	SH ltgy,occ mgy-gybrn,sbplty-blky,sft-frm,mica,calc,slsly
	20%	LS AA
	20%	SLTST AA
	ABNT	SS CVGS
4950-4960	60%	LS wh-bf,brn-ltgy,crpxl-micxl,mfrm-frm,slsly ip,rthy-cln, occ slfos
	20%	SLTST AA
	20%	SH AA
	ABNT	SS CVGS (VPS)
4960-4970	50%	LS AA
	50%	SH AA
	TR	SLTST AA
4970-4980	60%	SH lt-mgy,occ dkgy,blky-sbplty,sft-frm,mica,calc,slmrly, slty ip
	40%	LS AA slchty
	TR	SLTST AA
	ABNT	SS CVGS (VPS)
4980-4990	40%	SH AA
	40%	LS AA slfos
	20%	SLTST lt-mgy,ltbrn,fri-frm,sdy,lmy,mica,arg
	ABNT	SS CVGS
4990-5000	60%	LS AA occ brn,slchty,slfos
	40%	SH AA
	TR	SLTST AA
5000-5010	90%	LS wh-bf,lt-mbrn,ltgy,crp-micxl,frm-mhd,slsly-rthy,cln ip,slfos,slchty
	10%	SH AA
	TR	SLTST AA
	ABNT	SS CVGS
5010-5020	80%	LS AA
	10%	SH AA
	10%	SLTST AA
	ABNT	CVGS (ABNT CSG METAL)
5020-5030	60%	SH lt-mgy,occ dkgy,blky-sbplty,sft-frm,calc,slsly,mica, vsicarb
	40%	LS AA
	TR	SLTST AA & TR CHT trns1-clr,hd
5030-5040	60%	SH AA
	40%	LS wh,bf,ltbrn,gy,crp-micxl,frm-mhd,cln-rthy,occ chky,vsl chty,slfos,vslsly
	TR	SLTST AA & TR CHT AA

5040-5060	50%	LS AA
	40%	SH AA
	10%	SLTST ltgy-ltgybrn,brn ip,fri-frm,sdy,lmy,arg,mica
	TR	CHT AA
	ABNT	SS CVGS
5050-5060	60%	LS AA
	30%	SH AA
	10%	SLTST AA
	TR	CHT AA occ bf
	ABNT	SS CVGS
5060-5070	70%	LS pred bf-brn,occ wh-ltgy,crpxl-micxl,frm-mhd,clr-rthy, occ chky,slsly,fos ip
	20%	SH AA
	10%	SLTST AA
	TR	CHT clr-trns1,bf-ltbrn,hd
	ABNT	CVGS
5070-5080	70%	LS AA
	30%	SH AA
	TR	SLTST & CHT AA
5080-5090	100%	LS wh-bf,ltbrn,ltgy,mic-crpxl,frm,mhd,occ cln,rthy-chky, slsly,occ slmry
	TR	SLTST & CHT AA
	ABNT	SS CVGS
5090-5100	90%	LS AA
	10%	SLTST ltgy,ltgybrn,fri-frm,lmy,slmica,slsdy ip,arg
	TR	SH AA
	ABNT	SS CVGS
5100-5110	80%	LS AA ltbrn-wh mot
	20%	SLTST AA
	TR	SH AA
	ABNT	SS CVGS
5110-5120	20%	SLTST AA
	40%	LS AA ltgy-brn,mrly ip
	40%	SH lt-dkgy,sbblky-sbply,sft-mfrm,calc,carb,slsly-slmica, soty ip
	ABNT	CVGS
5120-5130	30%	LS AA
	30%	SH AA pred ltgy
	20%	SLTST AA vsdy ip
	20%	SS clr,ltgy,vfgr,sbang-sbrd,wsrt-uncons,NFSOC
5130-5140	70%	LS AA
	30%	SLTST AA
	TR	SH AA
	ABNT	SS CVGS
5140-5150	70%	LS occ ltgybrn AA
	30%	SH lt-dkgy AA
	TR	SLTST AA
5150-5160	50%	SH AA
	40%	LS AA slmry,chty ip
	10%	SLTST lt-mgy,ltgybrn,fri-frm,slsdy,lmy,mica,arg
	ABNT	SS CVGS
5160-5170	50%	LS AA
	50%	SH lt-dkgy,blk,blky-sbply,sft-frm,mica,calc,slsly,carb ip,vslmry
	TR	SLTST AA & TR CHT
5170-5180	70%	LS wh-crm,ltgybrn,ltbrn,crp-micxl,frm-mhd,rthy,slsly,cln ip,vslfos,vslchty

MERIDIAN OIL INC.
HAVASU FEDERAL #12-19A

	30%	SH AA
	TR	SLTST & CHT clr,bf,hd
	ABNT	SS CVGS
5180-5190	50%	LS AA
	30%	SH AA
	20%	SLTST AA
	TR	CHT AA
	ABNT	SS CVGS
5190-5200	50%	LS AA occ gybrn-mgy,mrly
	50%	SH AA mrly
	TR	SLTST & CHT AA
5200-5210	60%	SH lt-mgy,occ dkgy-dkgybrn,AA
	40%	LS wh-bf,ltgybrn-brn,AA mrly
	TR	CHT AA
	ABNT	SS CVGS
5210-5220	80%	LS bf-brn,occ ltgybrn,crp-micxl,frm-mhd,slty ip,mrly,sl rthy-cln
	20%	SLTST ltgy-gybrn,fri-frm,slsdy,lmy,arg,slmica
	TR	SH AA & CHT bf-clr,hd
5220-5230	80%	LS AA occ chty
	20%	SH lt-dkgy,blky-sbplty,sft-frm,mica,slslty,calc,vslcarb
	TR	SLTST & CHT AA
5230-5240	60%	LS wh-bf,occ ltgy-gybrn AA slty ip
	20%	SH AA
	20%	SLTST pred ltgy AA
	ABNT	SS CVGS
5240-5250	80%	LS AA slslty-cln
	10%	SH AA
	10%	SLTST AA
	TR	CHT trns1,hd
	ABNT	CVGS
5250-5260	40%	LS AA pred bf-ltbrn
	30%	SH AA
	20%	SLTST ltgy-gybrn,fri-frm,mica,lmy,arg,vslsdy
	10%	CHT AA
	ABNT	SS CVGS
5260-5270	50%	LS AA
	40%	SH AA
	10%	CHT bf-clr,trns1,hd
5270-5280	40%	SH lt-dkgy,occ blk,blky-sbplty,sft-frm,calc,carb,slslty, mica ip
	40%	LS pred bf-ltbrn,occ gybrn,crp-micxl,frm-mhd,rthy-cln,slslty ip,vslfos,mrly ip
	10%	CHT AA
	10%	SLTST lt-mgy,gybrn,fri-frm,sdy,vlmy,slmica,shly ip
5280-5290	50%	LS AA
	50%	SH AA
	TR	CHT AA
5290-5300	50%	LS AA mrly ip
	40%	SH AA
	10%	SLTST lt-mgy,occ ltgybrn,fri-frm,slsdy,vlmy,shly,vslmica
	TR	CHT AA
	ABNT	SS & SH CVGS
5300-5310	50%	SLTST AA
	40%	LS wh-brn,crp-micxl,frm-mhd,rthy-cln,mrly,vslfos,occ chky, slchty
	10%	SH

	TR	CHT AA
	ABNT	SS & SH CVGS
5300-5310	50%	SLTST AA
	40%	LS wh-brn,crp-micxl,frm-mhd,rthy-cln,mrly,vslfos,occ chky, slchty
	10%	SH AA
5310-5320	60%	LS AA occ vslanhy
	40%	SH lt-mgy,occ dkgy,blky-sbplty,sft-frm,mica,mrly,calc,sl carb,slty
	TR	SLTST AA
	ABNT	CVGS
5320-5330	50%	LS pred bf-brn AA
	50%	SH occ blk AA
	TR	CHT bf-cln,hd
	ABNT	CVGS
5330-5340	70%	LS AA
	30%	SH AA
	TR	CHT AA
5340-5350	40%	LS bf-brn,ltgybrn,occ wh AA
	40%	SH AA
	20%	SLTST ltgy,brn-gybrn,fri-frm,mica,slsdy,calc,arg
	TR	CHT AA
	ABNT	CVGS
5350-5360	60%	LS wh-bf,ltgy-ltgybrn,occ ltbrn,crp-micxl,frm-mhd,slslty
	20%	SH lt-mgy,occ dkgy-blk,blky-sbplty,sft-frm,mica,calc,sl carb-carb,mrly
	20%	SLTST AA
	TR	CHT brn-smky brn,hd
5360-5370	70%	LS AA
	30%	SH AA vsldol, occ brit
	TR	SLTST AA
	ABNT	CVGS
5370-5380	60%	LS AA
	40%	SH AA
	TR	SLTST AA & TR CHT
	ABNT	CVGS
5380-5390	80%	LS pred bf,occ ltbrn,wh,ltgybrn,crp-micxl,frm-mhd,rthy-cln, slslty,mrly ip, occ slfoss,chty ip
	20%	SH AA
	TR	CHT clr,bf,smky brn,hd
5390-5400	70%	LS AA
	30%	SH lt-dkgy,occ blk,blky-sbplty,sft-frm,mica,slslty,calc, carb ip,vsldol
	TR	CHT AA
	ABNT	CVGS
5400-5410	60%	LS AA
	40%	SH AA
	TR	CHT AA
	ABNT	CVGS
5410-5420	60%	SH pred dkgy-blk,AA mrly
	40%	LS bf-brn,occ dkbrn,AA vmrly ip
	TR	CHT
	ABNT	CVGS
5420-5430	60%	LS pred bf,occ wh-ltbrn-ltgy,crpxl-micxl,frm-mhd,rthy-cln, slslty,mrly,vslfos,chky ip
	40%	SH lt-mgy,occ blk,dkgybrn ip,blky-sbplty,mfrm-frm,mica, calc,slcarb,vsldol
	TR	CHT

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	ABNT	CVGS
5430-5440	70%	SH incr dkgy AA
	30%	LS AA sl-vslty ip
	TR	CHT clr-trnsl-bf,hd
	ABNT	CVGS
5440-5450	70%	SH pred dkgy-blk,AA
	30%	LS AA incr mrly
	TR	CHT AA
5450-5460	80%	SH AA sl-vslty
	20%	LS AA pred bf-brn
	TR	CHT AA & SLTST
5460-5470	50%	SH dkgy-blk AA brit ip,vslty ip
	30%	LS AA vmrly,slsly, grdg to lmy SLTST ip,fos ip,vsl anhy
	20%	SLTST lt-dkgy,fri-frm,slsdy,mica,lmy,vshly,slcarb
	TR	CHT
5470-5480	50%	SH AA
	50%	LS AA slanh
	TR	CHT trnsl,bf,hd & TR SLTST AA
5480-5490	70%	LS AA chty ip
	30%	SH AA
	TR	SLTST AA
5490-5500	40%	LS wh-bf,brn-gybrn,crp-micxl,frm-mhd,rthy-cln,slanh,fos ip,chtly,mrly
	40%	SH AA
	20%	SLTST AA
	TR	CHT trnsl,hd
5500-5510	60%	LS pred wh-crm AA vfos
	40%	SH lt-mgy,occ dkgy-blk,blky-sbplty,sft-frm,mica,slsly, calc,soty
	TR	SLTST AA & TR CHT
5510-5520	50%	LS pred bf,ltgy ip AA vmrly ip,slty
	40%	SH AA slmrly
	10%	SLTST ltgy-gybrn,fri-frm,mica,slsdy,vlmy,arg ip
5520-5530	60%	SH AA brit ip
	40%	LS bf-brn-gybrn,occ wh,crp-micxl,mhd,cln-tt,rthy ip,vsl slty,slfos,mrly,vslchty,grdg to lmy SH ip
	ABNT	SH CVGS
5530-5540	70%	SH lt-mgy,occ dkgy-blk,occ gybrn,bbky-plty,frm-frm,mica, slty,calc,carb,slsoty
	30%	LS AA
	ABNT	CVGS
5540-5550	70%	SH AA
	20%	LS AA vslty ip, grdg to lmy, SLTST ip,vfos
	10%	SLTST gy,gybrn,fri-vfrm,mica,slsdy,vshly,lmy,vslcarb
5550-5560	50%	SH pred ltgy AA
	30%	LS AA incr gy-wh,slty,slanh
	20%	SLTST AA grdg to slty LS ip
	TR	CHT trnsl-bf-gy,hd
5560-5570	60%	LS wh-brn,occ bf-tn-ltgy,mic-crpxl,rthy,occ cln,slty,anhy, fos,vslarg,chtly ip
	30%	SH lt-mgy,occ dkgy-blk,blky-sbplty,mfrm-frm,occ brit,calc, slsly-slty,mica ip,occ carb-soty
	10%	SLTST AA
	TR	CHT trnsl-clr,hd
	ABNT	CVGS
5570-5580	80%	LS AA
	20%	SH AA
	TR	SLTST AA & TR CHT AA

5580-5590	70%	LS pred lt gy-gybrn-bf, aa
	30%	SH aa
	TR	CHT occ bf aa
	ABNT	CVGS
5590-5600	70%	SH pred ltgy, aa, vlmy grdg to mrlst
	30%	LS aa vshly-grdg to mrlst
	ABNT	CVGS
5600-5610	50%	SH incr dkgy aa
	50%	LS incr ltgy-gybrn, bf, aa, vrthy ip, sl chty
	ABNT	CVGS
5610-5620	ABNT	CVGS
	30%	SH aa
	70%	LS wh-bf, occ brn-gybrn-gy, crpxl-micxl, frm-mhd, TR crin fos aa, anhy ip
	TR	CHT smky-brn, hd
	TR	SLTST gy-gybrn, fri-frm, mica, lmy, slsdy, arg, vsl carb
5620-5630	70%	LS wh-bf-tan-brn, crpxl-micxl, frm-hd, rthy-chk, occ cln- tt, fos, sl slty, anhy ip, chty
	10%	SH aa
	10%	SLTST aa
	10%	CHT trns1, bf, ambr, hd
5630-5640	ABNT	CVGS, v p spl
	50%	LS aa, incr gy mrly
	50%	SH lt-mgy, occ dkgy-blk-plty, mfrm-frm, brit ip, slty, lmy ip, occ carb, mica, sl dol, sooty ip
	TR	CHT trns1-bf, hd
	TR	SLTST aa
5640-5650	70%	LS bf-brn, gybrn, occ wh-ltgy, micxl, crpxl ip, frm-mhd, rthy-cln, sl slty, sl anhy, occ chty, vrr intxl Ø, NFSOC
	30%	SH aa
	TR	SLTST aa
	TR	CHT aa
5650-5660	50%	SH aa
	40%	LS aa
	10%	SLTST ltgy, fri-frm, lmy, slmica, arg, vs1carb
	TR	CHT
5660-5670	60%	LS incr gy-brn, aa, sl-vmrly ip, anhy ip, vs1ty ip
	40%	SH aa
	TR	SLTST aa
5670-5680	60%	SH incr blk-brit, aa
	40%	LS aa
	TR	SLTST aa
	ABNT	CVGS
5680-5690	70%	SH aa
	30%	LS aa
	TR	SLTST aa
	ABNT	CVGS
5690-5700	ABNT	CVGS (VPS)
	60%	SH aa
	30%	LS aa
	10%	SLTST gy-gybrn, fri-frm, mica, vlmy, slslty, varg, slcarb
5700-5710	ABNT	CVGS(VPS)PL
	50%	SH ltdkgy, blk, blk-plty, frm-brit, mica, calc, carb, sl slty, sooty
	50%	LS brn, bf, ltgybrn, micxl-crpxl, frm-mhd, slslty, rthy, occ cln, fos, sl dol, anhy
	TR	ANHY wh-sft
5710-5720	ABNT	CVG (VPS)L

40% LS AA, vrr intxl \emptyset , NFSOC
30% SH pred dkgy-blk, AA
20% DOL lt-mbrn, micxl, mfrm-frm, rthy, lmy, arg, vsifos, anhy, vrr
5720-5730 40% LS AA pred micxl, vfos, rr intxl \emptyset , n vis FSOC
30% SH AA
20% DOL AA tr intxl \emptyset , n vis FSOC
10% ANHY wh-sft
ABNT CVGS (VPS)
5730-5740 50% DOL bf-tn, ltbrn, gybrn, crp-vfxl, frm-mhd, rthy, lmy, anhy, g
intxl-fr pp vug \emptyset , fr spty bri ygld FLOR, n vis STN, g
stmg mlky CUT
40% LS bf-tn, pred crpxl, occ micxl, frm-mhd, cln-tt, occ rthy, dol,
anhy, vrr intxl-pp vug \emptyset , rr fnt dul ygld FLOR, no vis STN,
slo-n CUT
10% ANHY AA
ABNT CVGS (VPS)
5740-5750 35% DOL AA g intxl-fr pp vug \emptyset , g spty bri-dul y-gld FLOR, vrr-
n ltbrn STN, g stmg mlky CUT
30% LS AA, tt-tr intxl-rr pp vug \emptyset , tr spty dul ygld FLOR, n vis
STN, fr stmg mlky CUT
25% SH dkgy-blk, blk-sbplty, mfrm-brit, mica, calc, carb, soty
10% ANHY AA
ABNT CVGS
5750-5760 60% LS AA tt-vrr intxl \emptyset , n vis FLOR, NSOC
30% DOL AA tt-rr intxl \emptyset , vrr bri yFLOR, n vis STN, p CUT
10% ANHY AA
5760-5770 50% LS wh-bf, occ brn, crpxl, occ micxl, mfrm-mhd, pred cln-tt, v
anhy, occ rthy-chky, sldol, w/ANHY INCL, n vis \emptyset , NFSOC
40% DOL bf-brn, crpxl-vfxl, frm-hd, rthy-cln, lmy, w/ANHY INCL, tr
inxl \emptyset , n vis vug \emptyset , rr spty dul-bri y-gld FLOR, n vis
STN, fr stmg mlky CUT
10% ANHY wh, sft
ABNT CVGS (VPS)
5770-5780 50% LS pred crm-wh, AA tr crin fos
30% DOL AA abnt ANHY XL & INCL, tr anhy fl \emptyset , fr intxl-tr pp
vug \emptyset , tr dul-bri y-gld FLOR, nvis-vrr ltbrn STN, fr-g
stmg mlky CUT
10% ANHY AA xl ip
10% SH dkgy-blk, blk-plty, frm-brit, mica, calc, carb, dol
ABNT CVGS
5780-5790 50% LS AA pale wh mnrl FLOR, rr dul-bri y-gld FLOR, rr intxl \emptyset ,
occ anhy fl, n vis STN, rr mlky CUT
40% DOL brn-bf, occ gybrn, crpxl-micxl, tr intxl-rr pp vug \emptyset , fr
dul-bri y-FLOR, n vis STN, tr fr CUT
10% ANHY AA
ABNT CVGS
5790-5800 50% DOL pred ltbrn, micxl, AA tr anhy fl \emptyset , fr-g intxl-tr pp
vug \emptyset , spty, bri-dul y-gld FLOR, vrr ltbrn STN, tr g stmg
mlky CUT
30% LS wh-brn, crp-micxl, mfrm-mhd, rthy-chky, dol, any, vrr intxl
 \emptyset , p spty dul y-gld FLOR, tr mnrl FLOR, n vis STN, vp fnt
ring CUT
10% SH blk, sbplty-blky, frm-brit, calc, carb, dol, slmica, slsly
10% ANHY wh-sft
ABNT CVGS (VPS)
5800-5810 60% DOL ltbrn-brn, occ gybrn, mic-vfxl, frm-mh, rthy, sl lmy, occ
ANHY INCL-ANHY FL \emptyset , fr-g intxl-fr pp vug \emptyset , tr spty bri
dul y-gld FLOR, rr mnrl FLOR, tr ltbrn STN, g stmg mlky CUT

	30%	LS AA,Ø-FSC AA
	10%	ANHY AA
	ABNT	CVGS
5810-5820	50%	LS wh-bf,brn,mic-crpxl,mhd,dol,sl-vanhy,occ fos,rthy,cln ip,anhy w/ANHY INCL,tt-vrr intxl-rr pp vug Ø,rr spty dul y-gold FLOR,n vis STN,fr resid ring to slo mlky <u>CUT</u>
	40%	DOL AA occ tt,Ø-FSC AA
	10%	ANHY AA
	ABNT	CVGS (VPS)
5820-5830	40%	LS AA vfxl ip,tr intxl-f pp vug Ø,anhy fl Ø,spty fnt dul y-gld FLOR,n vis STN,p mlky-resid ring <u>CUT</u>
	40%	DOL AA tt-anhy fl Ø,fr intxl Ø,vrr pp vug Ø,spty dul y-gld FLOR,vrr STN,fr mlky <u>CUT</u>
	10%	ANHY wh,sft
	10%	SH blk,blky-sbplty,frm-brit,mica ip,calc,dol,carb
	ABNT	CVGS (VPS)
5830-5840	60%	LS wh-bf,ltgy,crpxl-micxl,dol,slanhy,cln-tt,vrr intxl Ø,n vis FLOR,STN or <u>CUT</u>
	25%	DOL AA
	15%	ANHY AA xl ip
5840-5850	50%	LS AA
	30%	DOL bf-ltbrn,micxl,mhd,frm,rthy,lmy,anhy,tt-rr intxl-vrr pp vug,pred anny fl Ø,vrr dul y-gld FLOR,n vis STN,rr v slow ring <u>CUT</u>
	20%	ANHY AA xl ip
5850-5860	40%	SH blk,sbblky-sbplty,sft-brit,dol,mica,calc,carb
	30%	DOL bf,lt-dkbrn,dkgybrn,micxl,mfrm-mhd,rthy,lmy,grdg to shly dd,vrr intxl Ø,vrr dul y-gld FLOR,n vis STN,p <u>CUT</u>
	20%	LS wh-bf,crpxl-micxl,mfrm-mhd,dol,anhy,rthy-cln,chky ip, n vis Ø,NFSOC
	10%	ANHY wh,sft
5860-5870	70%	SH AA
	10%	DOL AA vrthy bcmg dol SH
	10%	LS AA
	10%	ANHY AA
	TR	SLTST gy-dkgybrn,fri-frm,mica,calc,slcarb,varg
5870-5880	90%	SH dkgybrn-blk,sbplty=blky,mica ip,slsly,calc,carb,dol, soty
	10%	SLTST AA
	TR	DOL & LS
5880-5890	80%	SH AA
	10%	SLTST ltgy-mgybrn,fri-frm,mica,calc,arg,vslsdy,dol ip
	10%	DOL gy-brn,crpxl-micxl,frm-mhd,vrthy,grdg to dol SH,slcalc, vrr intxl Ø,NFSOC
	TR	LS
5890-5900	50%	SH AA
	30%	DOL ltbrn,ltgybrn,micxl,crpxl ip,mfrm-mhd,slsly,calc,v rthy ip,occ tt,vrr intxl Ø,NFSOC
	10%	SLTST AA
	10%	LS brn-dkgybrn,crpxl,mhd,slarg,dns,sldol,anhy ip,NFSOC
	TR	ANHY wh,sft
5900-5910	50%	SH blk,blky,brit,carb,slcalc,soty
	40%	DOL bcmg m-dkbrn,AA
	10%	LS AA occ bf
	TR	SLTST & TR ANHY
5910-5920	50%	ANHY wh,trnsl,ltgy,amor-xl,sft,mfrm ip w/DOL INCL
	20%	SH AA
	20%	DOL m-dkbrn,occ ltbrn,crpxl,micxl ip,frm-mhd,anhy,sl lmy,

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	rthy-cln
5920-5930	10% LS wh-brn,crpxl,mhd,cln-tt,anhy-sl dol
	60% ANHY AA incr xl,abnt DOL INCL
	20% DOL AA w/rr intxl ø,vrr fnt dul y-gld <u>FLOR</u> ,vrr fnt <u>STN</u> ,vp
	resid ring <u>CUT</u>
	10% SH AA
	10%LS AA vdol-anhy
5930-5940	40% DOL brn,gybrn-dkgybrn,micxl,frm-mhd,rthy,sl anhy,grdg to
	dol SH
	30% SH m-dkbrn,blk,sbplty-blky,frm-brit,dol,mica,slsly,calc,
	carb
	30% ANHY AA
5940-5950	40% SH AA
	40% DOL AA
	20% ANHY AA

MERIDIAN OIL INC.
 HAVASU FEDERAL #12-19A
 SECTION 19, T38S, R24E
 SAN JUAN COUNTY - UTAH

FORMATION	FORMATION TOPS		E-LOG TOP	SUBSEA DATUM
	SAMPLE TOP	SUBSEA DATUM		
CUTLER	---	---	2735'	+2407
HERMOSA	4742'	+400	4753'	+ 389
UPPER ISMAY	5707'	-565	5710'	- 568
UPPER ISMAY Ø	5725'	-583	5734'	- 592
HOVENWEEP SHALE	5857'	-715	5864'	- 722
LOWER ISMAY	5890'	-748	5890'	- 748
GOTHIC SHALE	5934'	-792	5944'	- 802

GEOLOGIC SUMMARY
AND
ZONES OF INTEREST

The Meridian Oil Inc.'s Havasu Federal #12-19A well was spudded on November 3, 1988 in Section 19, T38S, R24E of San Juan County, Utah. This was an Upper Ismay production in Meridian's Kachina Field. 13 3/8" conductor pipe was set at 74' on November 4, 1988 and 8 5/8" casing was set at 1970' on November 7, 1988. Geologic coverage began at 4500' in the lower part of the Cutler Formation.

CUTLER (2735' - 4753')(+2407')

The Cutler was predominately red orange-to-orange, occasionally red brown, light gray green shale that was subblocky-to-subplaty, soft-to-firm, slightly-to-noncalcareous, slightly silty and slightly micaceous and was interbedded with red orange-to-red brown, occasionally light gray-to-brown, slightly-to-very sandy, friable-to-firm, micaceous and slightly calcareous siltstone; clear-to-light gray, red orange, very fine-to-medium grained, well sorted, unconsolidated sandstone and thin white-to-orange, gray brown, pink, cryptocrystalline-to-microcrystalline, earthy, dense and slightly silty limestone. The Cutler produced no show of interest.

HERMOSA (4753' - 5710')(+389')

The Hermosa was primarily a white-to-buff, occasionally light-to-medium brown, light gray-to-gray brown, cryptocrystalline-to-microcrystalline, firm-to-medium hard limestone, slightly silty-to-earthy, occasionally fossiliferous, clean-to-anhydritic, slightly-to-very marly. The limestone had interbedded light-to-dark gray, occasionally black, calcareous-to-carbonaceous, slightly silty shale; light gray-to-brown, calcareous, slightly sandy, micaceous siltstone; and clear-to-translucent, light gray, very fine-to-medium grained, well sorted, unconsolidated sandstone. And some thin scattered chert lenses were present. No gas shows were noted.

UPPER ISMAY (5710' - 5864')(-568')

The Upper Ismay was interbedded light-to-medium gray, silty limestone and brown, cryptocrystalline, dense dolomite; black carbonaceous and dolomitic shale; and white-to-occasionally crystalline dense anhydrite in the upper 23 feet. The top of the Upper Ismay positivity was at 5735' and was predominately a buff-to-brown, gray brown, cryptocrystalline-to-very fine crystalline, earthy-to-clean, slightly limy, anhydritic dolomite with rare-to-good intercrystalline and rare-to-good pinpoint vugular porosity, rare-to-fair, spotty, dull-to-bright yellow-gold fluorescence, no visible stain, very poor and faint residual ring cut. The Upper Ismay showed approximately 66 feet of density porosity greater than 6 percent. Total gas averaged 100 units over the Upper Ismay. Three gas recorded while drilling were: #1 at 5734', #2 at 5800' and #3 at 5812' with 136, 200 and 250 units, respectively. (See Show Reports #1 - #3 included in this report.) No drill stem test was run over the Upper Ismay.

HOVENWEEP SHALE (5864' - 5890')(-722')

The Hovenweep Shale underlays the Upper Ismay with gradational contact. Shale is black, carbonaceous, slightly dolomitic, calcareous, firm-to-brittle and slightly silty. Total gas averaged 50 units with a high of 180 units while drilling the formation.

MERIDIAN OIL INC.
GEOLOGIC SUMMARY CONTINUED

LOWER ISMAY (5890' - 5944')(-748')

The Lower Ismay underlays the Hovenweep Shale with a sharp contact. The upper 9 feet of the Lower Ismay was a gray-to-brown, silty, earthy-to-clean limestone; medium-to-dark brown earthy dolomite; and black carbonaceous shale. The Lower Ismay anhydrite was 21 foot thick and was white-to-translucent and light gray, amorphous-to-crystalline, with thin brown-to-gray brown dolomite inclusions. The lower part of the formation was white-to-brown, tight and clean limestone; and medium-to-dark brown, cryptocrystalline-to-microcrystalline dolomite with very rare intercrystalline porosity; rare, faint, dull-to-bright yellow-gold fluorescence, and very rare stain and very poor residual ring cut. Show #4 at 5936' came from an earthy brown microcrystalline dolomite with fluorescence, stain and cut described above. (See Show Report #4 included in this report.) 220 units of total gas was recorded while drilling the basal Lower Ismay. No drill stem test was run on the Lower Ismay.

GOTHIC SHALE (5944' - ?)(-802')

The Gothic Shale underlays the Lower Ismay with a gradational contact. The shale was a dark gray-to-black, calcareous, carbonaceous and slightly silty-to-slightly dolomite. Total gas averaged 80 units while drilling the Gothic. The total Gothic Shale Formation was not drilled as drilling was halted 16 feet into the formation.

At the time of this report, 5½" production casing has been run and the well is awaiting completion.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐

2. NAME OF OPERATOR

Meridian Oil Inc.

3. ADDRESS OF OPERATOR

P.O. Box 1855, Billings, MT 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State or Federal requirements)*

At surface SWNW (2520' FNL - 200' FWL)

At top prod. interval reported below

Same

At total depth Same

14. PERMIT NO.

DATE ISSUED

47-037-31459

10-11-88

15. DATE SPUDDED

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

19. ELEV. CASINGHEAD

11-3-88

11-14-88

11-27-88

5128' KB

5115'

20. TOTAL DEPTH, MD & TVD

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

5950'

5905'

XX

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

5736' - 5832' Upper Ismay

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

CNCD, DLL, CBL/VDL/GR/CCI

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	1970	12-1/4"	802 sx "B" Class	None
5-1/2"	15.5#	5948	7-7/8"	945 sxs Class "B"	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	5671	5671

31. PERFORATION RECORD (Interval, size and number)

5736' - 5832', 4", 4 JSPF
Upper Ismay

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5736' - 5832'	10,000 gal 15% HCL

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
11-27-88		Flowing					Shut-In	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
12-21-88	24	20/64"	→	121	200	3	1653	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
120	---	→	121	200	3	44		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold

TEST WITNESSED BY

Dave Overgaard

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

D R Hamer

TITLE Regional Drilling Engineer

DATE 1-10-89

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
			NONE	Chinle Shinarump Cutler Hermosa Upper Ismay Lower Ismay	1890' 2891' 3041' 4798' 5710' 5890'	

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
1-TAS	
2- MICROFILM	✓
3- FILE	

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)		5. LEASE DESIGNATION & SERIAL NO. U 56186
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
2. NAME OF OPERATOR Meridian Oil Inc.		7. UNIT AGREEMENT NAME Kachina
3. ADDRESS OF OPERATOR 1601 Lewis, Ste. 208, Billings, MT 59102		8. FARM OR LEASE NAME Havasu Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface Section 19-38S-24E At proposed prod. zone		9. WELL NO. 12-19, 12-19A and 22-19 10. FIELD AND POOL, OR WILDCAT Kachina
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19-38S-24E		12. COUNTY San Juan
13. STATE UT		14. API NO. 43-037-31459
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		16. DIVISION OF OIL, GAS & MINING OCT 02 1989

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
(Other) Notice of Flaring <input checked="" type="checkbox"/>	
(Note: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)	

APPROX. DATE WORK WILL START _____

DATE OF COMPLETION _____

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

El Paso Plant was down for mechanical problems, causing Western Gas Processors' Kachina plant to go down. 484 MCF was flared by wells in Section 19 of Kachina Field.

Verbal approval to flare was obtained from both the State of Utah and the BLM on Monday, September 25th.

Western's Gas Plant was back in operation at 0800 on 9/28/89.

CONFIDENTIAL

18. I hereby certify that the foregoing is true and correct.

SIGNED W. H. Brown
 (This space for Federal or State office use)

TITLE Prod. Super.

DATE 9/29/89

APPROVED BY _____
 CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Received
BLM
Moab District

MIT IN TRIPLICATE
FORM APPROVED
Budget Bureau No. 1004-0135
Expires September 30, 1990

5. Lease Designation and Serial No.
UTU56186

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or re-entry to a different reservoir. Use "Application for Permit: for such proposals.

1. Type of Well
Oil ☒ Gas ☐ Other ☐
2. Name of Operator
Meridian Oil Inc.
3. Address and Telephone No.
5613 DTC Parkway, Englewood, CO 80111 (303) 930-9300
4. Location of Well (Footage, Sec., T.R.M. or Survey Description)
SWNW 2520' FNL - 200' FWL
Sec. 19, T38S, R24E

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Havasu Federal 12-19A

9. API Well No.
43-037-31459

10. Field and Pool, Exploratory Area
Kachina

11. County or Parish, State
San Juan, Utah

12. CHECK APPROPRIATE BOX (S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Recompletion

☐ New Construction

☒ Subsequent Report

☐ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut-Off

☐ Final Abandonment

☐ Altering Casing

☐ Conversion to Injection

☒ Other Scale Inhibitor Squeeze

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Described Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Completed operations 10/28/92

Pump 50 bbls filtered, produced water with 220 gals Welchem WA-839 scale inhibitor and 220 gals 15% HCl with corrosion inhibitor down backside at pressure below 3800 PSI. Flush with 625 bbls filtered water. Shut-in overnight. RWTP.

MERIDIAN OIL INC.

14. I hereby certify that the foregoing is true and correct.

FEB 03 1993

Signed Karen F. Riley Title Sr. Production Engineer Date January 27, 1993 **DRILLING**
Karen F. Riley **PERMITS SECTION**

(This space for Federal or State office use)

Branch of Fluid Minerals
Moab District

FEB - 2 1993

Approved By

ACCEPTED

Title

Date

Condition of Approval, If any:

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

Page 2 of 2

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

MARALENE SPAWN
MERIDIAN OIL INC
PO BOX 3209
ENGLEWOOD CO 80155-3209

UTAH ACCOUNT NUMBER: N7230

REPORT PERIOD (MONTH/YEAR): 7 / 96

AMENDED REPORT ☐ (Highlight Changes)

Well Name					Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location						OIL(BBL)	GAS(MCF)	WATER(BBL)
✓ ARABIAN FEDERAL #3					NESW ✓					
4303731287	10654	38S	24E	19	IS-DC			456186	Kechine Unit	
✓ HAVASU FEDERAL 12-19					SWNW ✓					
4303731457	10654	38S	24E	19	ISMY			456186	Kechine Unit	
✓ HAVASU FEDERAL 12-19A					SWNW ✓					
4303731459	10654	38S	24E	19	ISMY			456186	Kechine Unit	
✓ NAVAJO FEDERAL 42-5					SENE ✓					
4303731261	10655	39S	25E	5	ISMY			458728	Kiva (Upper mesa) Unit	
✓ NAVAJO FEDERAL 41-5					NENE ✓					
4303731358	10810	39S	25E	5	DSCR			457895	Kiva / Non P.A.	
✓ INDIAN CREEK 14176 #1						✓				
4301530091	10907	17S	06E	14	FRSD			415202	E.mtn. II Unit	(9-16-94 Invalidated)
✓ NOCK-FEDERAL 21-33						✓				
4303731425	10923	38S	24E	33	ISMY			440361	Bannock Unit	
TOTALS										

COMMENTS:

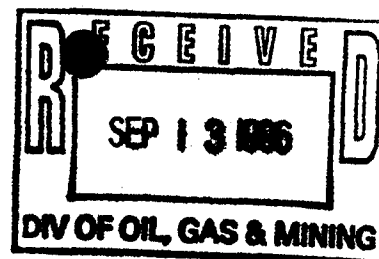
I hereby certify that this report is true and complete to the best of my knowledge.

Date: _____

Name and Signature: _____

Telephone Number: _____

MERIDIAN OIL



September 10, 1996

State of Utah
Division of Oil, Gas and Mining
355 ~~1594~~ West North Temple
Salt Lake City, UT 84180

Re: Name Change from Meridian Oil Inc. to
Burlington Resources Oil & Gas Co.

Gentlemen:

Please be advised effective July 11, 1996 Meridian Oil Inc. changed their name and address to:

Burlington Resources Oil & Gas Co.
3300 North "A" St., Bldg. 6
Midland, TX 79710-1810

Please see the attached list of wells that Burlington Resources operates in the State of Utah. If you should have any questions, please contact me at (303) 930-9393 or after September 30th at (915) 688-6800.

Sincerely,

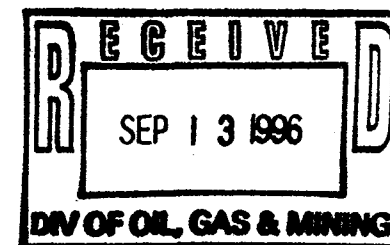
BURLINGTON RESOURCES OIL & GAS CO.

A handwritten signature in cursive script, reading "Eileen Danni Dey".

Eileen Danni Dey
Senior Regulatory Compliance Representative

Enclosure

FIELD	WELL NAME	WELL NO	FORMATION/POOL	COUNTY	OCATIO	SEC	TWN	RGE	API NUMBER	FEDERAL LEASE NUMBER	STATE CONTROL NO.
BANNOCK	BANNOCK FEDERAL	21-33	ISMAY	SAN JUAN	NENW	33	038S	024E	43-037-3142500	UTU60786A	10923
✓ CEDAR MOUNTAIN	EAST CANYON UNIT	33-18	CEDAR MOUNTAIN	GRAND	NWSE	18	016S	025E	43-019-1620300	UTU05059	9515
✓ EAST MOUNTAIN	EAST MOUNTAIN FEDERAL	13-35	FERRON	EMERY	NWSW	35	016S	006E	43-015-3023000	57287U6920	10789
✓ EAST MOUNTAIN	EAST MOUNTAIN FEDERAL	32-23	FERRON	EMERY	SWNE	23	016S	006E	43-015-3023100	57287U6920	11075
✓ FERRON	INDIAN CREEK UNIT	1	FERRON	EMERY	SWNW	02	017S	006E	43-015-3008200	57287U6920	02585
✓ FERRON	INDIAN CREEK UNIT	3	FERRON	EMERY	SWSW	02	017S	006E	43-015-3107500	57287U6920	02585
✓ FERRON	INDIAN CREEK UNIT 10176	5	FERRON	EMERY	SENE	10	017S	006E	43-015-3011700	57287U6920	02585
✓ FERRON	INDIAN CREEK UNIT 14176	2	FERRON	EMERY	SWNE	14	017S	006E	43-015-3009100	UTU15202	10907
✓ KACHINA	ARABIAN FEDERAL (WIW)	2	ISMAY	SAN JUAN	NWSW	19	038S	024E	43-037-3128200	UTU56186	10654
✓ KACHINA	ARABIAN FEDERAL	3	ISMAY	SAN JUAN	NESW	19	038S	024E	43-037-3128700	UTU56186	10654
✓ KACHINA	HAVASU FEDERAL (WIW)	11-19	UPPER ISMAY	SAN JUAN	NWNW	19	038S	024E	43-037-3145800	UTU56186	10654
✓ KACHINA	HAVASU FEDERAL	12-19	UPPER ISMAY	SAN JUAN	SWNW	19	038S	024E	43-037-3145700	UTU56186	10654
✓ KACHINA	HAVASU FEDERAL	12-19A	ISMAY	SAN JUAN	SWNW	19	038S	024E	43-037-3145900	UTU56186	10654
✓ KACHINA	HAVASU FEDERAL	22-19	UPPER ISMAY	SAN JUAN	SENE	19	038S	024E	43-037-3127800	UTU56186	10654
✓ KACHINA	HAVASU FEDERAL	41-24	UPPER ISMAY	SAN JUAN	NENE	24	038S	023E	43-037-3127900	UTU20895	10654
✓ KACHINA	HAVASU FEDERAL (WIW)	42-24	UPPER ISMAY	SAN JUAN	SENE	24	038S	023E	43-037-3129800	UTU20895	10654
✓ KACHINA	WASH UNIT (WSEW)	2	CUTLER	SAN JUAN	SESE	13	038S	023E	43-037-3132400	UTU20894	10654
✓ KIVA (DESERT CREEK)	NAVAJO FEDERAL	41-5	DESERT CREEK	SAN JUAN	NENE	05	039S	025E	43-037-3542100	UTU57895	10810
✓ KIVA (UPPER ISMAY)	KIVA FEDERAL	24-4	ISMAY	SAN JUAN	SESW	04	039S	025E	43-037-3174500	83687U6890	09975
✓ KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WIW)	12-4	ISMAY	SAN JUAN	SWNW	04	039S	025E	43-037-3139500	83687U6890	09975
✓ KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WIW)	14-4	ISMAY	SAN JUAN	SWSW	04	039S	025E	43-037-3132100	83687U6890	09975
✓ KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WIW)	21-9	ISMAY	SAN JUAN	NENW	09	039S	025E	43-037-3126700	83687U6890	09975
✓ KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WIW)	23-4	UPPER ISMAY	SAN JUAN	NESW	04	039S	025E	43-037-3125900	83687U6890	09975
✓ KIVA (UPPER ISMAY)	NAVAJO FEDERAL	4-2	ISMAY	SAN JUAN	SWSE	04	039S	025E	43-037-3116100	83687U6890	09975
✓ KIVA (UPPER ISMAY)	NAVAJO FEDERAL	4-4	ISMAY	SAN JUAN	NWSW	04	039S	025E	43-037-3117900	83687U6890	09975
✓ KIVA (UPPER ISMAY)	NAVAJO FEDERAL	42-5	UPPER ISMAY	SAN JUAN	SENE	05	039S	025E	43-037-3126100	83687U6890	10655
✓ KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WSEW)	42-9	WINGATE/CUTLER	SAN JUAN	SENE	09	039S	025E	43-037-3126300	83687U6890	09975
✓ KIVA (UPPER ISMAY)	NAVAJO FEDERAL	9-1	UPPER ISMAY	SAN JUAN	NWNE	09	039S	025E	43-037-3100100	83687U6890	09975
✓ KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WIW)	4-1	ISMAY	SAN JUAN	SESW	04	039S	025E	43-037-3111200	83687U6890	09975
✓ KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WIW)	43-5	ISMAY	SAN JUAN	NWSW	05	039S	025E	43-037-3131700	83687U6890	09975
✓ MON MESA	HATCH POINT FEDERAL	27-1A	CANE CREEK	SAN JUAN	NESW	27	027S	021E	43-037-3051800	8910184250	02815

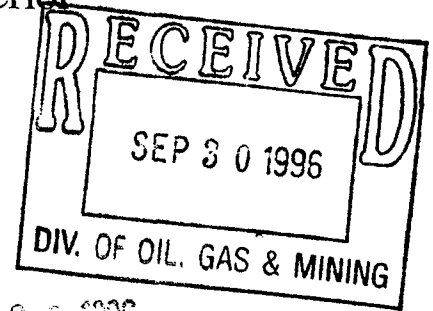




United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155



In Reply Refer To
3100
SL-071010C
(UT-932)

SEP 26 1996

NOTICE

Burlington Resources Oil & Gas Company	:	Oil and Gas
801 Cherry Street, Suite 900	:	SL-071010C
Fort Worth, Texas 76102	:	

Corporate Name Change Recognized

Acceptable evidence has been filed in this office concerning the corporate name change from Meridian Oil Inc. to Burlington Resources Oil & Gas Company.

For our purposes, the name change is recognized effective July 12, 1996, the date the Secretary of State of Delaware certified the name change.

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our field offices, you will be contacted by them.

A rider to Bond No. 400IA9059 (BLM Bond No. MT0719) has been accepted by the Montana State office as of September 16, 1996, its date of receipt. The rider changed the name on the bond from Meridian Oil Inc. to Burlington Resources Oil & Gas Company.

ROBERT LOPEZ

Robert Lopez
Group Leader,
Minerals Adjudication Group

Enclosure
Exhibit (1 p)

cc: MMS, Data Management Division, P.O. Box 5860, MS 3113, Denver, Colorado 80217
Moab District Office
Vernal District Office

bc: State of Utah, ATTN: Lisha Cordova, Division of Oil, Gas and Mining, P.O. Box 145801,
Salt Lake City, Utah 84114-5801
Teresa Thompson (UT-931)
Irene Anderson (UT-932)

Exhibit of Leases Affected

SL-071010C	U-8894A	U-40751	U-61752
SL-071595	U-8895A	U-45051	U-62143
U-0681	U-8897A	U-45929	U-62190
U-0683	U-15202	U-46825	U-63181
U-0684	U-15203	U-51045	UTU-64930
U-0685	U-15204	U-51046	UTU-64931
U-0719	U-16962A	U-51047	UTU-65329
U-0725	U-17024	U-52333	UTU-65607
U-0737	U-17623	U-56186	UTU-65750
U-0741	U-19281	U-56932	UTU-65751
U-0744	U-20016	U-56933	UTU-65868 (ROW)
U-03333	U-20895	U-56934	UTU-65940
U-04049	U-24606	U-57895	UTU-65943
U-04049A	U-39832	U-58728	UTU-66025
U-05059	U-40361	U-60428	UTU-66487
U-08107	U-40440	U-60520	UTU-66584
U-062420	U-40544 (ROW)	U-61556	UTU-66708
UTU-66830	UTU-66831	UTU-67565	UTU-67568
UTU-67569	UTU-67570	UTU-68232	UTU-68664
UTU-68676	UTU-69434	UTU-70115 (ROW)	UTU-70196
UTU-72660	U-60786X (Bannock Unit)	U-63089X (East Mountain Unit)	

OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

1-LEC	6-LEC
2-GLD	7-KDR
3-DTS	8-SJ
4-VLD	9-FILE
5-RJF	

- ☒ Change of Operator (~~well sold~~) ☐ Designation of Agent
☐ Designation of Operator ☒ Operator Name Change ~~Only~~

The operator of the well(s) listed below has changed, effective: 7-11-96

TO: (new operator) BURLINGTON RESOURCES O&G CO.
 (address) 3300 N "A" ST BLDG 6
MIDLAND TX 79710-1810
EILEEN DANNI DEY
 Phone: (915)688-6800
 Account no. N7670

FROM: (old operator) MERIDIAN OIL INC
 (address) PO BOX 3209
ENGLEWOOD CO 80155-3209
EILEEN DANNI DEY
 Phone: (303)930-9393
 Account no. N7230

WELL(S) attach additional page if needed:

***KACHINA, KIVA, EAST MOUNTAIN, BANNOCK UNIT'S**

Name: **SEE ATTACHED**	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- 1 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). (Rec'd 9-13-96)
- 2 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). (Rec'd 9-13-96)
- 3 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is the company registered with the state? (yes/no) ____ If yes, show company file number: #096593. (E.H. 1-29-87)
- 4 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of Federal and Indian well operator changes should ordinarily take place prior to the division's approval, and before the completion of steps 5 through 9 below.
- 5 5. Changes have been entered in the Oil and Gas Information System (3270) for each well listed above. (i.e. WIC Program) (10-3-96)
- 6 6. Cardex file has been updated for each well listed above. (10-3-96)
- 7 7. Well file labels have been updated for each well listed above. (10-3-96)
- 8 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (10-3-96)
- 9 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Lee 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- N/A 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY) *961002 "Rider" 80,000 to Burlington held by Trust Lands Admin.

- Lee 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
- N/A 2. A copy of this form has been placed in the new and former operator's bond files.
- N/A 3. The FORMER operator has requested a release of liability from their bond (yes/no) _____, as of today's date _____. If yes, division response was made to this request by letter dated _____.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- N/A 1. Copies of documents have been sent on _____ to _____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
OTS
11/6/96

FILMING

- VB 1. All attachments to this form have been microfilmed. Today's date: 12-27-96.

FILING

- ___ 1. Copies of all attachments to this form have been filed in each well file.
- ___ 2. The original of this form, and the original attachments are now being filed in the Operator Change file.

COMMENTS

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

Page 2 of 2

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

MARALENE SPAWN
BURLINGTON RESOURCES O&G
3300 N A ST BLDG 6
MIDLAND TX 79710-1810

UTAH ACCOUNT NUMBER: N7670

REPORT PERIOD (MONTH/YEAR): 2 / 97

AMENDED REPORT ☐ (Highlight Changes)

Well Name API Number Entity Location	Producing Zone	Well Status	Days Oper	Production Volumes		
				OIL(BBL)	GAS(MCF)	WATER(BBL)
HAVASU FEDERAL 12-19 4303731457 10654 38S 24E 19	ISMY			U-56186	Kechina Unit	Sec. Recovery
HAVASU FEDERAL 12-19A 4303731459 10654 38S 24E 19	ISMY			U-56186	"	
NAVAJO FEDERAL 42-5 4303731261 10655 39S 25E 5	ISMY			U-58728		
NAVAJO FEDERAL 41-57 4303731358 10810 39S 25E 5	DSCR			U-57895		
INDIAN CREEK 14176-1 4301530091 10907 17S 06E 14	FRSD			U-15202		
BANNOCK-FEDERAL 21-33 4303731425 10923 38S 24E 33	ISMY			U-40361		
4303731324 99990 38S 24E 13	SPMP / WSW			U-20894	*BLM apr. 4-23-97	
4303731282 10654 38S 24E 19	ISMY / W/W			U-56186	Kechina Unit	Sec. Recovery
4303731458 10654 38S 24E 19	ISMY / W/W			U-56186	"	
4303731278 10654 38S 24E 19	ISMY / W/W			U-20895	"	
TOTALS						

REMARKS:

I hereby certify that this report is true and complete to the best of my knowledge.

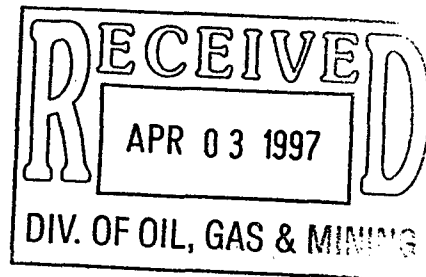
Date: _____

Signature: _____

Telephone Number: _____

MERIT ENERGY COMPANY

12222 MERIT DRIVE, SUITE 1500
DALLAS, TEXAS 75251
(972) 701-8377
(972) 960-1252 Fax



April 2, 1997

**Utah Division of Oil, Gas and Mining
Attn: Ms. Lisha Cordova
1594 West North Temple
Suite 1210
Salt Lake City, Utah 84114**

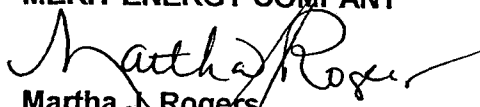
**RE: Change of Operator to Merit Energy Company
Emery and San Juan County**

Dear Ms. Cordova:

Enclosed please find a copy of Form 3160 executed by both parties, Merit Energy and Burlington Resources.

If additional information or forms are required to process this transaction, please contact me at 972-701-8377.

**Yours very truly,
MERIT ENERGY COMPANY**


**Martha J. Rogers
Manager, Regulatory Affairs**

(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or re-entry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

BURLINGTON RESOURCES OIL & GAS COMPANY

3. Address and Telephone No (915)688-6800

P. O. BOX 51810, MIDLAND, TX 79710-1810

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SWNW
19 038S 024E, SLM

5. Lease Designation and Serial No.
UTU56186

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
HAVASU FEDERAL 12-19A

9. API Well No.
43,037,3145900

10. Field and Pool, or Exploratory Area
KACHINA, ISMAY

11. County or Parish, State
SAN JUAN, UT

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other CHANGE OF
OPERATOR

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Described Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

EFFECTIVE JANUARY 1, 1997, BURLINGTON RESOURCES OIL & GAS COMPANY, THE OPERATOR OF RECORD OF THE HAVASU FEDERAL 12-19A WELL, TRANSFERRED ALL OF ITS RIGHT, TITLE AND INTEREST IN SAID WELL TO MERIT PARTNERS, L.P. (AS TO 92.4%) AND MERIT ENERGY PARTNERS III, L.P. (AS TO 7.6%), C/O MERIT ENERGY COMPANY, 12222 MERIT DRIVE, DALLAS, TX 75251.

ON APRIL 1, 1997, MERIT ENERGY COMPANY, GENERAL PARTNER FOR MERIT PARTNERS, L.P. AND MERIT ENERGY PARTNERS III, L.P., WILL TAKE OVER PHYSICAL OPERATIONS OF SAID WELL ON BEHALF OF SAID LIMITED PARTNERSHIPS.

14. I hereby certify that the foregoing is true and correct.

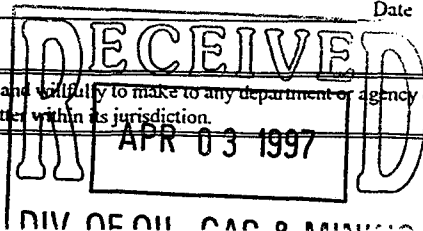
Signed Kent Beers Title Attorney-in-Fact Date March 31, 1997

(This space for Federal or State office use)

Approved By _____ Title _____
Condition of Approval, If any:

Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.



CHANGE OF OPERATOR STATE OF - UT

COUNTY	FIELD NAME	WELL NAME	STR	LSE#	WELLTYPE	APIWELL	COMM NO.	FED CNTRL	ST CNTRL
EMERY	EAST MOUNTAIN ,FERRON	EAST MOUNTAIN FEDERAL 13-35	35 016S 006E	1 ML-27626	GAS WELL	43,015,3023000	UT060P49-67U69	57287U6920	025 <i>1156933</i>
EMERY	EAST MOUNTAIN ,FERRON	EAST MOUNTAIN FEDERAL 32-23	23 016S 006E		GAS WELL	43,015,3023100	UT060P49-67U69	57287U6920	025 <i>117634</i>
EMERY	FERRON ,FERRON	INDIAN CREEK 021762 3	02 017S 006E	1 ML-27626	GAS WELL	43,015,3017500		57287U6920	025 <i>115254</i>
EMERY	FERRON ,FERRON	INDIAN CREEK 1	02 017S 006E	ML-27626	GAS WELL	43,015,3008200		57287U6920	025 <i>ML-27626</i>
EMERY	FERRON ,FERRON	INDIAN CREEK 10176 5	10 017S 006E	1 ML-27626	GAS WELL	43,015,3011700		57287U6920	025 <i>115203</i>
EMERY	FERRON ,FERRON	INDIAN CREEK 14176 1	14 017S 006E	UTU15202	GAS WELL	43,015,3009100		UTU15202	109 <i>115202</i>
SAN JUAN	BANNOCK ,ISMAY	BANNOCK FEDERAL 21-33	33 038S 024E	✓ UTU60786	OIL WELL	43,037,3142500	60786A	UTU60786A	109 <i>1146361</i>
SAN JUAN	KACHINA ,CUTLER	WASH UNIT 2	13 038S 023E	UTU20894	WATER SOURCE	43,037,3132400		UTU20894	106 <i>1120894 (To Water Rights 4797)</i>
SAN JUAN	KACHINA ,ISMAY	ARABIAN FEDERAL 2	19 038S 024E	UTU56186	WATER INJECTED	43,037,3128200		UTU56186	106 <i>1156186</i>
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 11-19	19 038S 024E	UTU56186	WATER INJECTED	43,037,3145800		UTU56186	106 <i>1156186</i>
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 12-19	19 038S 024E	UTU56186	OIL WELL	43,037,3145700		UTU56186	106 <i>1156186</i>
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 12-19A	19 038S 024E	UTU56186	OIL WELL	43,037,3145900		UTU56186	106 <i>1156186</i>
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 22-19	19 038S 024E	UTU56186	OIL WELL	43,037,3127800		UTU56186	106 <i>1156186</i>
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 41-24	24 038S 023E	UTU20895	OIL WELL	43,037,3127900		UTU20895	106 <i>1120895</i>
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 42-24	24 038S 023E	UTU20895	WATER INJECTED	43,037,3129800		UTU20895	106 <i>1120895</i>

CHANGE OF OPERATOR STATE OF - UT

COUNTY	FIELD NAME	WELL NAME	STR	LSE#	WELLTYPE	APIWELL	COMM NO.	FED CNTRL	ST CNTRL
SAN JUAN	KACHINA ,ISMAY-DESERT CREEK	ARABIAN FEDERAL 3	19 038S 024E	UTU58186	OIL WELL	43,037,3128700		UTU58186	106 <i>U56186</i>
SAN JUAN	KIVA (UPPER ISMAY) ,CUTLER	NAVAJO FEDERAL 42-9	09 039S 025E	U-52333	WATER SOURCE	43,037,3126300			<i>U52333 to water rights 4-797</i>
SAN JUAN	KIVA (UPPER ISMAY) ,ISMAY	KIVA FEDERAL 24-4	04 039S 025E		OIL WELL	43,037,3174500		83687U6890	099 <i>USA-U52333</i>
SAN JUAN	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL (WIW) 4-1	04 039S 025E		WATER INJECTED	43,037,3111200		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL (WIW) 43-5	04 039S 025E		WATER INJECTED	43,037,3131700		83687U6890	099 <i>U58728</i>
SAN JUAN	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 12-4	04 039S 025E		WATER INJECTED	43,037,3139500		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 14-4	04 039S 025E		WATER INJECTED	43,037,3132100		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 21-9	09 039S 025E		WATER INJECTED	43,037,3126700		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 23-4	04 039S 025E		WATER INJECTED	43,037,3125900		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 4-1	04 039S 025E		OIL WELL	43,037,3111200		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 4-2	04 039S 025E		OIL WELL	43,037,3116100		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 4-4	04 039S 025E		OIL WELL	43,037,3117900		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 42-5	05 039S 025E		OIL WELL	43,037,3126100		83687U6890	106 <i>U58728</i>
SAN JUAN	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 43-5	04 039S 025E		OIL WELL	43,037,3131700		83687U6890	099 <i>U58728</i>
SAN JUAN	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 9-1	09 039S 025E		OIL WELL	43,037,3100100		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY) ,WINGATE	NAVAJO FEDERAL 42-9	09 039S 025E		WATER SOURCE	43,037,3126300		83687U6890	099 <i>U52333 to water rights 4-797</i>

CHANGE OF OPERATOR STATE OF - UT

<u>COUNTY</u>	<u>FIELD NAME</u>	<u>WELL NAME</u>	<u>STR</u>	<u>LSE#</u>	<u>WELLTYPE</u>	<u>APIWELL</u>	<u>COMM NO.</u>	<u>FED CNTRL</u>	<u>ST CNTRL</u>
SAN JUAN	KIVA ,DESERT CREEK	NAVAJO FEDERAL 41-5	05 039S 025E	UTU57895	OIL WELL	43,037,3135800		UTU57895	108 <i>1157895</i>
SAN JUAN	LION MESA ,CANE CREEK	HATCH POINT FEDERAL 27-1A	27 027S 021E	UTU20016	OIL WELL	43,037,3051800		UTU20016	028 <i>420016</i>

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

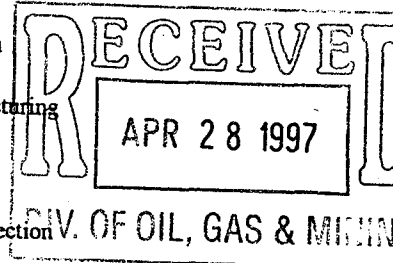
Do not use this form for proposals to drill or to deepen or re-entry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. UTU56186
2. Name of Operator MERIT ENERGY COMPANY	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No (972) 701-8377 12222 MERIT DRIVE, DALLAS, TX 75251	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SWNW 19 038S 024E, SLM	8. Well Name and No. HAVASU FEDERAL 12-19A
	9. API Well No. 43,037,3145900
	10. Field and Pool, or Exploratory Area KACHINA, ISMAY
	11. County or Parish, State SAN JUAN, UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment <input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion <input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back <input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair <input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing <input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>CHANGE OF OPERATOR</u> <input type="checkbox"/> Dispose Water
	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)



13. Described Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

EFFECTIVE AS OF JANUARY 1, 1997, BURLINGTON RESOURCES OIL & GAS COMPANY, THE PRIOR OPERATOR OF RECORD, TRANSFERRED ALL RIGHT, TITLE AND INTEREST IN THE HAVASU FEDERAL 12-19A WELL TO MERIT PARTNERS, L.P. (AS TO 92.4%) AND MERIT ENERGY PARTNERS III, L.P. (AS TO 7.6%), C/O MERIT ENERGY COMPANY, 12222 MERIT DRIVE, DALLAS, TX 75251. ON APRIL 1, 1997, MERIT ENERGY COMPANY, THE GENERAL PARTNER FOR MERIT PARTNERS, L.P. AND MERIT ENERGY PARTNERS III, L.P., WILL TAKE OVER PHYSICAL OPERATIONS OF SAID WELL ON BEHALF OF SAID LIMITED PARTNERSHIPS AND IS CONSIDERED TO BE THE OPERATOR OF SAID WELL AS OF THAT DATE.

MERIT ENERGY COMPANY IS RESPONSIBLE UNDER THE TERMS AND CONDITIONS OF THE LEASE FOR THE OPERATIONS CONDUCTED UPON THE LEASED LANDS. BOND COVERAGE IN THE AMOUNT OF \$150,000 FOR MERIT ENERGY COMPANY IS PROVIDED UNDER BLM BOND NO. WY3011, IN FAVOR OF THE BUREAU OF LAND MANAGEMENT, U. S. DEPARTMENT OF THE INTERIOR.

14. I hereby certify that the foregoing is true and correct.

Signed Martha Rogers Title Manager, Regulatory Affairs Date March 31, 1997

(This space for Federal or State official use)
Brad D. Palmer

Approved By Brad D. Palmer Title Assistant Field Manager, Resource Management Date APR 28 1997

Condition of Approval, If any:

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

Merit Energy Company
Well No. Havasu Federal 12-19A
SWNW Sec. 19, T. 38 S., R. 24 E.
San Juan County, Utah

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Merit Energy Company is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased land.

Bond coverage for this well is provided by BLM Bond WY3011 (Principle - Merit Energy Company) as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.

Initial each listed item when completed. Write N/A if item is not applicable.

Routing	
1-IEC	6-JAC
2-GLM	7-KAS
3-DTS	8-SI
4-VLD	9-FILE
5-JRB	

☒ Change of Operator (well sold)☐ Designation of Agent☐ Designation of Operator☐ Operator Name Change OnlyThe operator of the well(s) listed below has changed, effective: 4-1-97

TO: (new operator) MERIT ENERGY COMPANY
 (address) 12222 MERIT DR STE 1500
DALLAS TX 75251
MARTHA ROGERS
 Phone: (972) 701-8377
 Account no. N4900 (4-30-97)

FROM: (old operator) BURLINGTON RESOURCES O&G
 (address) 3300 N A ST BLDG 6
MIDLAND TX 79710-1810
MARALENE SPAWN
 Phone: (915) 688-6800
 Account no. N7670

WELL(S) attach additional page if needed:

***KACHINA UNIT (SECONDARY RECOVERY)**

Name: **SEE ATTACHED**	API: <u>43-037-3459</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

OPERATOR CHANGE DOCUMENTATION

1. (r649-8-10) Sundry or other legal documentation has been received from the FORMER operator (attach to this form). (Rec'd 4-3-97)
2. (r649-8-10) Sundry or other legal documentation has been received from the NEW operator (Attach to this form). (Rec'd 4-3-97)
3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is the company registered with the state? (yes/no) ____ If yes, show company file number: #C0198545. (c# 3-13-97)
4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of Federal and Indian well operator changes should ordinarily take place prior to the division's approval, and before the completion of steps 5 through 9 below.
5. Changes have been entered in the Oil and Gas Information System (3270) for each well listed above. (4-30-97)
6. Cardex file has been updated for each well listed above. (5-30-97)
7. Well file labels have been updated for each well listed above. (5-30-97)
8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (4-30-97)
9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- ___ 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ___ If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- ___ 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY)

- ___ 1. (r649-3-1) The **NEW** operator of any fee lease well listed above has furnished a proper bond.
- ___ 2. A **copy of this form** has been placed in the new and former operator's bond files.
- ___ 3. The **FORMER** operator has requested a release of liability from their bond (yes/no) ___, as of today's date _____. If yes, division response was made to this request by letter dated _____.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- N/A 1. Copies of documents have been sent on _____ to _____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- N/A 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated _____ 19 ___, of their responsibility to notify all interest owners of this change.

FILMING

- VB 1. All attachments to this form have been **microfilmed**. Today's date: 6-20-97.

FILING

- ___ 1. **Copies** of all attachments to this form have been filed in each **well file**.
- ___ 2. The **original of this form**, and the **original attachments** are now being filed in the Operator Change file.

COMMENTS

970430 BLM / Aprv. 4-23-97.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☐ OTHER _____

2. NAME OF OPERATOR:
Merit Energy Company

3. ADDRESS OF OPERATOR:
12222 Merit Dr., Suite _____ CITY Dallas STATE TX ZIP 75251

PHONE NUMBER:
(972) 701-8377

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See Attached

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:

See attached

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

See attached

8. WELL NAME and NUMBER:

See attached

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

See attached

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Merit Energy Company advises, effective SEPT. 30, 2000, Journey Operating, L.L.C. will become the operator of the wells on the attached list.

Journey Operating, L.L.C.
1201 Louisiana, Suite 1040
Houston, TX. 77002
(713) 655-0595

By: Brian A. Baer
Brian A. Baer, President

RECEIVED

OCT 20 2000

DIVISION OF
OIL, GAS AND MINING

NAME (PLEASE PRINT) Arlene Valliquette

TITLE Manager - Regulatory Affairs

SIGNATURE Arlene Valliquette

DATE 9/29/00

(This space for State use only)

(June 1990)

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

FORM APPROVED

Budget Bureau No.: 1004-0135

Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

*Do not use this form for proposals to drill or reentry to an
abandoned well. Use Form 3160-3 (APD) for such proposals*

SUBMIT IN TRIPLICATE - Other instructions on reverse side**1. Type of well**
☐ Oil ☐ Gas ☒

Well Well Other Water Source Well

2. Name of Operator

Journey Operating, L.L.C.

3a. Address and Telephone No.

1201 Louisiana, Suite 1040, Houston, Tx 77002

3b. Phone No. (include area code)

713-655-0595

4. Location of Well (Footage, Sec, T,R, or Survey Description)

1050' FNL & 500' FEL (NE NE)

Sec 24, T 38S, R 23E

5. Lease Designation and Serial No.

UTU-20895

7. If Unit or CA, Agreement Designation**8. Well Name and No.**

Havasu Federal #41-24

9. API Number

43-037-31279

10. Field and Pool or Exploratory Area

Kachina; Ismay

11. County or Parish, State

San Juan County, UT

12 CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**TYPE OF SUBMISSION**

- ☒ Notice of Intent
- ☐ Subsequent Report
- ☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off
- ☐ Alter Casing ☐ Fracture Treat ☐ Reclamation ☐ Well Integrity
- ☐ Casing Repair ☐ New construction ☐ Recomplete ☒ Other
- ☐ Change Plans ☐ Plug and Abandon ☐ Temporarily Abandon Change of Operator
- ☐ Convert to Injection ☐ Plug Back ☐ Water Disposal

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated starting date of starting any proposed work and approximate duration thereof.

If the proposal is to deepen directionally or recompleat horizontally, give subsurface location and measured and true vertical depths of all pertinent markers and zone. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operations result in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Journey Operating, L.L.C. hereby accepts the operatorship of this well effective October 1, 2000. Journey Operating, L.L.C. will be responsible under the terms and conditions of the lease(s) for the operations conducted on the leased lands or portions thereof. Journey Operating, L.L.C. bond coverage is provided under Bond No. RLB0002487. Bum Bond # WY 3354 - Nationwide

14 I hereby certify that the foregoing is true and correctSigned: Janice M. CheTitle: Sr. Regulatory AnalystDate: 1/17/01

(This space for Federal or State office use)

Approved by: William HungerTitle: Assistant Field Manager,Date: 1/22/01

Conditions of approval, if any:

Division of Resources**CONDITIONS OF APPROVAL ATTACHED**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United State any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

***See Instructions on Reverse Side**cc: BOAM 1/22/01

RECEIVED

JAN 25 2001

DIVISION OF
OIL GAS AND MINING

Journey Operating, LLC
Well No. Havasu Federal 41-24
NENE Sec. 24, T. 38 S., R. 23 E.
Lease UTU20895
San Juan County, Utah

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Journey Operating, LLC is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by WY3354 (Principal - Journey Operating, LLC) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

RECEIVED

JAN 25 2001

DIVISION OF
OIL, GAS AND MINING

CHANGE OF OPERATOR
from Merit Energy Company to Journey Operating, L.L.C.
Federal Lease No. UTU-56186
Kachina Field
San Juan County, Utah

Attachement to BLM Form 3160-5

Well Type	Well Name/Number	API Number	Location of Well
Injection Well	Arabian Federal #2	43-037-31282	NW SW (2180' FSL & 950' FWL) Sec. 19-38S-24E
Oil Well	Arabian Federal #3	43-037-31287	NE SW (1470' FSL & 1750' FWL) Sec. 19-38S-24E
Injection Well	Havasus Federal #11-19	43-037-31458	NW NW (940' FNL & 590' FWL) Sec. 19-38S-24E
Oil Well	Havasus Federal #12-19	43-037-31457	SW NW (1840' FNL & 410' FWL) Sec. 19-38S-24E
Oil Well	Havasus Federal #12-19A	43-037-31459	SW NW (2520' FNL & 200' FWL) Sec. 19-38S-24E
Oil Well	Havasus Federal #22-19	43-037-31278	SW NW (1850' FNL & 1255' FWL) Sec. 19-38S-24E

RECEIVED

JAN 25 2001

DIVISION OF
OIL, GAS AND MINING

Journey Operating, LLC
Well Nos. 2, 3, 11-19, 12-19, 12-19A and 22-19
Sec. 19, T. 38 S., R. 24 E.
Lease UTU56186
San Juan County, Utah

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Journey Operating, LLC is considered to be the operator of the above wells and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for these wells is provided by WY3354 (Principal - Journey Operating, LLC) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

RECEIVED

JAN 25 2001

DIVISION OF
OIL, GAS AND MINING

CHANGE OF OPERATOR
from Merit Energy Company to Journey Operating, L.L.C.
San Juan County, Utah

Attachment to Utah Form 19

Well Type	Lease Serial No.	Field Name	Well Name/Number	API Number	Location of Well
Oil Well	UTU-40361	Bannock	Bannock Federal #21-33	43-037-31425	NE NW (685' FNL & 1520' FWL) Sec. 33-T38S-R24E
Injection Well	I-149-IND-9123	Ismay	Ismay Flodine Park R-124	43-037-16169	NE NE (660' FNL & 660' FEL) Sec. 24-T40S-R25E
Oil Well	14-20-603-2055-A	Ismay	Ismay Flodine Park S-216	43-037-15546	SW NW (1820' FNL & 500' FWL) Sec. 16-T40S-R26E
Injection Well	14-20-603-2055-A	Ismay	Ismay Flodine Park T-316	43-037-16462	NE SW (1980' FSL & 1980' FWL) Sec. 16-T40S-R26E
Oil Well	14-20-603-2055-A	Ismay	Ismay Flodine Park S-416	43-037-15544	SW SW (1820' FNL & 500' FWL) Sec. 16-T40S-R26E
Oil Well	14-20-603-2055-A	Ismay	Ismay Flodine Park U-416	43-037-15545	SW SE (660' FSL & 1980' FEL) Sec. 16-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park T-117	43-037-16456	NE NW (775' FNL & 1995' FWL) Sec. 17-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park S-217	43-037-16170	SW NW (1980' FNL & 660' FWL) Sec. 17-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-117	43-037-16188	NE NE (660' FNL & 660' FEL) Sec. 17-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-217	43-037-16180	SW NE (1980' FNL & 1820' FEL) Sec. 17-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park T-317	43-037-16463	NE SW (1980' FSL & 1980' FWL) Sec. 17-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-417	43-037-16185	SW SE (500' FSL & 1820' FEL) Sec. 17-T40S-R26E
Injection Well	I-149-IND-9123	Ismay	Ismay Flodine Park T-118	43-037-16457	NE NW (660' FNL & 1980' FWL) Sec. 18-T40S-R26E
Oil Well	I-149-IND-9123	Ismay	Ismay Flodine Park S-218	43-037-16171	SW NW (1820' FNL & 660' FWL) Sec. 18-T40S-R26E
Oil Well	I-149-IND-9123	Ismay	Ismay Flodine Park T-318	43-037-16464	NE SE (1980' FSL & 1980' FWL) Sec. 18-T40S-R26E
Oil Well	I-149-IND-9123	Ismay	Ismay Flodine Park V-318	43-037-16467	NE SE (1980' FSL & 660' FEL) Sec. 18-T40S-R26E
Oil Well	I-149-IND-9123	Ismay	Ismay Flodine Park U-418	43-037-16186	SW SE (660' FSL & 1980' FEL) Sec. 18-T40S-R26E
Injection Well	I-149-IND-9123	Ismay	Ismay Flodine Park T-119	43-037-16458	NE NW (660' FNL & 1980' FWL) Sec. 19-T40S-R26E
Water Source Well	I-149-IND-9123	Ismay	Ismay Flodine Park V-219	43-037-16519	SE NE (1980' FNL & 560' FEL) Sec. 19-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-120	43-037-16190	NE NE (660' FNL & 660' FEL) Sec. 20-T40S-R26E
Water Source Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-220	43-037-20055	SE NE (1950' FNL & 1120' FEL) Sec. 20-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park S-121	43-037-31629	NW NW (500' FNL & 660' FWL) Sec. 21-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park T-121	43-037-16460	NE NW (610' FNL & 2050' FWL) Sec. 21-T40S-R26E
Water Source Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-121	43-037-20056	NW NE (540' FNL & 1980' FEL) Sec. 21-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-121	43-037-16191	NE NE (660' FNL & 660' FEL) Sec. 21-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-421	43-037-11267	SW SE (660' FSL & 1980' FEL) Sec. 21-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-321	43-037-16194	NE SE (1980' FSL & 670' FEL) Sec. 21-T40S-R26E

CHANGE OF OPERATOR
from Merit Energy Company to Journey Operating, L.L.C.
San Juan County, Utah

Attachment to Utah Form 19

Well Type	Lease Serial No.	Field Name	Well Name/Number	API Number	Location of Well
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park S-222	43-037-16173	SW NW (2030' FNL & 820' FWL) Sec. 22-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park T-322	43-037-16179	NE SW (1820' FSL & 1935' FWL) Sec. 22-T40S-26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-422	43-037-16187	SW SE (820' FSL & 2140' FEL) Sec. 22-T40S-R26E
Oil Well	NOG-9904-1324	Ismay	Ismay Flodine Park S-227	43-037-16231	SW NW (2140' FNL & 820' FWL) Sec. 27-T40S-R26E
Oil Well	NOG-9904-1324	Ismay	Ismay Flodine Park U-127	43-037-31648	NE NE (745' FNL & 595' FEL) Sec. 27-T40S-R26E
Oil Well	NOG-9904-1324	Ismay	Ismay Flodine Park U-227	43-037-16234	SW NE (2120' FNL & 1950' FEL) Sec. 27-T40S-R26E
Oil Well	14-20-603-2058-A	Ismay	Ismay Flodine Park U-234	43-037-16184	SW NE (1980' FNL & 2080' FEL) Sec. 34-T40S-R26E
Water Source Well	UTU-20894	Kachina	Wash Unit #2	43-037-31324	SE SE (470' FSL & 850' FEL) Sec. 13-T38S-R23E
Oil Well	UTU-20895	Kachina	Havasus Federal #41-24	43-037-31279	NE NE (1050' FNL & 500' FEL) Sec. 24-T38S-R23E
Injection Well	UTU-20895	Kachina	Havasus Federal #42-24	43-037-31298	SE NE (1970' FNL & 461' FEL) Sec. 24-T38S-R23E
Injection Well	UTU-56186	Kachina	Arabian Federal #2	43-037-31282	NW SW (2180' FSL & 950' FWL) Sec. 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Arabian Federal #3	43-037-31287	NE SW (1470' FSL & 1750' FWL) Sec. 19-T38S-R24E
Injection Well	UTU-56186	Kachina	Havasus Federal #11-19	43-037-31458	NW NW (940' FNL & 590' FWL) Sec. 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasus Federal #12-19	43-037-31457	SW NW (1840' FNL & 410' FWL) Sec. 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasus Federal #12-19A	43-037-31459	SW NW (2520' FNL & 200' FWL) Sec. 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasus Federal #22-19	43-037-31278	SW NW (1850' FNL & 1255' FWL) Sec. 19-T38S-R24E
Injection Well	UTU-52333	Kiva	Navajo Federal #12-4	43-037-31395	SW NW (2260' FNL & 440' FWL) Sec. 4-T39S-R25E
Injection Well	UTU-52333	Kiva	Navajo Federal #14-4	43-037-31321	SW SW (1150' FSL & 1110' FWL) Sec. 4-T39S-R25E
Injection Well	UTU-52333	Kiva	Navajo Federal #23-4	43-037-31259	NE SW (1500' FSL & 2500' FWL) Sec. 4-T39S-R25E
Oil Well	UTU-52333	Kiva	Kiva Federal #24-4	43-037-31745	SE SW (1057' FSL & 1997' FWL) Sec. 4-T39S-R25E
Injection Well	UTU-52333	Kiva	Navajo Federal #4-1	43-037-31112	SE SW (370' FSL & 1940' FWL) Sec. 4-T39S-R25E
Oil Well	UTU-52333	Kiva	Navajo Federal #4-2	43-037-31161	SW SE (300' FSL & 2225' FEL) Sec. 4-T39S-R25E
Oil Well	UTU-52333	Kiva	Navajo Federal #4-4	43-037-31179	NW SW (1980' FSL & 660' FWL) Sec. 4-T39S-R25E
Oil Well	UTU-57895	Kiva	Navajo Federal #42-5	43-037-31261	SE NE (2130' FNL & 320' FEL) Sec. 5-T39S-R25E
Injection Well	UTU-58728	Kiva	Navajo Federal #43-5	43-037-31317	NE SE (1954' FSL & 627' FEL) Sec. 5-T39S-R25E
Oil Well	UTU-52333	Kiva	Navajo Federal #9-1	43-037-31001	NW NE (770' FNL & 2010' FEL) Sec. 9-T39S-R25E

CHANGE OF OPERATOR
from Merit Energy Company to Journey Operating, L.L.C.
San Juan County, Utah

Attachment to Utah Form 19

Well Type	Lease Serial No.	Field Name	Well Name/Number	API Number	Location of Well
Injection Well	UTU-52333	Kiva	Navajo Federal #21-9	43-037-31267	NE NW (330' FNL & 2510' FWL) Sec. 9-T39S-R25E
Water Source Well	UTU-52333	Kiva	Navajo Federal #42-9	43-037-31263	SE NE (1850' FNL & 1140' FEL) Sec. 9-T39S-R25E

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH		4-KAS	✓
2. CDW	✓	5- 770	✓
3. JLT		6-FILE	

Enter date after each listed item is completed

X Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

Merger

The operator of the well(s) listed below has changed, effective: **10/01/2000**

FROM: (Old Operator):
MERIT ENERGY COMPANY
Address: 12222 MERIT DR. STE 1500
DALLAS, TX 75251
Phone: 1-(972)-701-8377
Account No. N4900

CA No.

TO: (New Operator):
JOURNEY OPERATING LLC
Address: 1201 LOUISIANA STE 1040
HOUSTON, TX 77002
Phone: 1-(713)-655-0595
Account No. N1435

Unit: KACHINA

WELL(S)

NAME	API NO.	ENTITY NO.	SEC. TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
HAVASU FEDERAL 41-24	43-037-31279	10654	24-38S-23E	FEDERAL	OW	P
ARABIAN FEDERAL # 3	43-037-31287	10654	19-38S-24E	FEDERAL	OW	P
HAVASU FEDERAL 12-19	43-037-31457	10654	19-38S-24E	FEDERAL	OW	P
HAVASU FEDERAL 12-19A	43-037-31459	10654	19-38S-24E	FEDERAL	OW	P
HAVASU FEDERAL 22-19	43-037-31278	10654	19-38S-24E	FEDERAL	OW	P

OPERATOR CHANGES DOCUMENTATION

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 10/23/2000
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 01/25/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 02/06/2001
4. Is the new operator registered in the State of Utah: YES Business Number: 4822566-0161
5. If **NO**, the operator was contacted on: N/A
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: 01/22/2001

7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A
9. **Underground Injection Control ("UIC") Prog:** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 02/06/2001
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 02/06/2001
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE BOND VERIFICATION:

1. State well(s) covered by Bond No.: N/A

FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond No: _____
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A
3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

FILMING:

1. All attachments to this form have been **MICROFILMED** on: 2-21-01

FILING:

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filled in each well file on: _____

COMMENTS:

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING

1. DJJ

2. CDW

X Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

6/9/2006

FROM: (Old Operator):

N1435-Journey Operating, LLC
 201 Louisiana, Suite 1040
 Houston, TX 77002

Phone: 1 (713) 655-0595

TO: (New Operator):

N0265-Citation Oil & Gas Corp
 8223 Willow Place South
 Houston, TX 77070

Phone: 1 (281) 517-7800

CA No.

Unit:

KACHINA

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
HAVASU-FEDERAL 22-19	19	380S	240E	4303731278	10654	Federal	OW	P
HAVASU-FEDERAL 41-24	24	380S	230E	4303731279	10654	Federal	OW	P
ARABIAN FED 2	19	380S	240E	4303731282	10654	Federal	WI	A
ARABIAN FEDERAL 3	19	380S	240E	4303731287	10654	Federal	OW	P
HAVASU FED 42-24	24	380S	230E	4303731298	10654	Federal	WI	A
WASH UNIT 2	13	380S	230E	4303731324	10654	Federal	WS	A
HAVASU FEDERAL 12-19	19	380S	240E	4303731457	10654	Federal	OW	S
HAVASU FED 11-19	19	380S	240E	4303731458	10654	Federal	WI	A
HAVASU FEDERAL 12-19A	19	380S	240E	4303731459	10654	Federal	OW	P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/23/2006
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/23/2006
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: _____
- Is the new operator registered in the State of Utah: YES Business Number: 793304-0143
- If **NO**, the operator was contacted on: _____
- (R649-9-2) Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 7/6/2006 BIA
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 7/6/2006
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/30/2006

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 7/31/2006
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/31/2006
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: 7/31/2006

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: 104061650
- Indian well(s) covered by Bond Number: 104061656

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached List
2. NAME OF OPERATOR: Journey Operating, L.L.C. <i>N 1435</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1201 Louisiana, Suite 1040 <i>HOUSTON</i> TX <i>77002</i>		7. UNIT or CA AGREEMENT NAME: See Attached List
PHONE NUMBER: (713) 655-0595		8. WELL NAME and NUMBER: See Attached List
4. LOCATION OF WELL FOOTAGES AT SURFACE: See Attached List		9. API NUMBER: See Attach
COUNTY: San Juan		10. FIELD AND POOL, OR WILDCAT: See Attached List
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: UTAH

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Journey Operating, L.L.C. advises, effective June 9, 2006, Citation Oil & Gas Corp. will become the operator of the wells on the attached list.

Citation Oil & Gas Corp. (N0265)
8223 Willow Place South
Houston, TX 77070
(281) 517-7800
Bond No.: 104325628 - \$120,000

BLM BOND = 104061650
BIA BOND = 104061656

By: *Robert T. Kennedy*
Robert T. Kennedy
Sr. Vice President Land

NAME (PLEASE PRINT) <u>Brian A. Baer</u>	TITLE <u>President</u>
SIGNATURE <i>Brian A. Baer</i>	DATE <u>6/9/2006</u>

(This space for State use only)

APPROVED *7/13/1/2006*

Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(5/2000)

(Instructions on Reverse Side)

RECEIVED

JUN 23 2006

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Citation Oil & Gas Corp.

3a. Address
8223 Willow Place South, Houston, TX 77070

3b. Phone No. (include area code)
281-517-7800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
See Attached List

5. Lease Serial No.

UTU-56186

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
See Attached List

9. API Well No.
See Attached List

10. Field and Pool, or Exploratory Area
Kachina; Ismay

11. County or Parish, State
San Juan Co., UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Change of Operator
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Effective June 9, 2006, Citation Oil & Gas Corp. will take over as operator of the above captioned lease(s) from Journey Operating, L.L.C.

Citation Oil & Gas Corp. hereby accepts the operatorship of the above captioned lease(s). Citation Oil & Gas Corp. will be responsible under the terms and conditions of the lease(s) for the operations conducted on the leased lands or portion thereof. Citation Oil & Gas Corp. bond coverage is provided under Bond No. 104061650 MTB000053.

RECEIVED
JUL 10 2006
BLM - UT - 950
DIV. OF OIL, GAS & MINING
AM 9:15

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Robert T. Kennedy

Title Sr. Vice President Land

Signature

Robert T. Kennedy

Date

06/09/2006

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

ACCEPTED

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title Division of Resources

Moab Field Office

Office

Date

7/10/06

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

cc: UDDM 7/10/06

CONDITIONS OF APPROVAL ATTACHED

CHANGE OF OPERATOR
From Journey Operating, L.L.C. To Citation Oil & Gas Corp.
Federal Lease No.: UTU-56186
Kachina Unit
San Juan County, UT

Well Type	Lease Serial No.	Field Name	Well Name/Number	API Number	Location of Well
Injection Well	UTU-56186	Kachina	Arabian Federal #2	43-037-31282	NW SW (2180' FSL & 950' FWL) Sec 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Arabian Federal #3	43-037-31287	NE SW (1470' FSL & 1750' FWL) Sec 19-T38S-R24E
Injection Well	UTU-56186	Kachina	Havasus Federal #11-19	43-037-31458	NW NW (940' FNL & 590' FWL) Sec 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasus Federal #12-19	43-037-31457	SW NW (1840' FNL & 410' FWL) Sec 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasus Federal #12-19A	43-037-31459	SW NW (2520' FNL & 200' FWL) Sec 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasus Federal #22-19	43-037-31278	SE NW (1850' FNL & 1255' FWL) Sec 19-T38S-R24E

Citation Oil and Gas Corporation
All Wells on Lease
Section 19, T38S, R24E
Lease UTU56186
Grand County, Utah

CONDITIONS OF ACCEPTANCE

Acceptance of these applications does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Citation Oil and Gas Corporation is considered to be the operator of the above wells effective June 9, 2006, and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for these wells is provided by MTB000053 (Principal – Citation Oil and Gas Corporation) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43CFR 3106.7-2 continuing responsibility are met.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: Federal UTU56186
2. NAME OF OPERATOR: Citation Oil & Gas Corp.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P O Box 690688 CITY Houston STATE TX ZIP 77269-0688		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (281) 891-1576		8. WELL NAME and NUMBER: Havasu Federal 12-19A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2520' FNL & 200' FWL		9. API NUMBER: 4303731459
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 19 38S 24E		10. FIELD AND POOL, OR WILDCAT:

COUNTY: San Juan

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Retain in shut in status
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Citation Oil & Gas Corp. requests approval to retain this well in an inactive status pending reactivation and for monitoring water injection efficiency inside the unit. The well is economical to produce; however it was shut-in due to possible communication with offset producers.

COPY SENT TO OPERATOR

Date: 4.6.2011

Initials: VS

NAME (PLEASE PRINT) Debra Harris	TITLE Regulatory Compliance Coordinator
SIGNATURE <i>Debra Harris</i>	DATE 3/24/2011

(This space for State use only)

REQUEST DENIED

Utah Division of
Oil, Gas and Mining

Date: 4/4/2011

By: *[Signature]*

(See Instructions on Reverse Side)

* Insufficient information to approve request
see 1644-3-36

RECEIVED

MAR 28 2011

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-56186
2. NAME OF OPERATOR: Citation Oil & Gas Corp.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P O Box 690688 CITY Houston STATE TX ZIP 772691		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2520' FNL & 200' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 19 38S 24E		8. WELL NAME and NUMBER: Havasu Federal 12-19A
PHONE NUMBER: (281) 891-1565		9. API NUMBER: 4303731459
COUNTY: San Juan		10. FIELD AND POOL, OR WILDCAT: Kachina
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Citation Oil & Gas Corp. requests permission to plug and abandon the referenced well with the attached procedure.

COPY SENT TO OPERATOR

Date: 4.6.2011
Initials: KS

NAME (PLEASE PRINT) <u>Bridget Lisenbe</u>	TITLE <u>Permitting Analyst</u>
SIGNATURE <u>Bridget Lisenbe</u>	DATE <u>3/28/2011</u>

(This space for State use only)

Accepted by the
Utah Division of
Oil, Gas and Mining
Date: 4/4/2011
By: [Signature]
(See Instructions on Reverse Side)

Federal Approval Of This
Action Is Necessary

RECEIVED
MAR 29 2011
DIV. OF OIL, GAS & MINING

PLUG AND ABANDON PROCEDURE

PROJECT: Plug and Abandon the Havasu Federal 12-19A in Kachina Field

PRESENT FORMATION AND COMPLETION: Ismay Formation

TUBING: 2-7/8" J-55 EUE 6.5# 8rd

MISC.: _____

PROCEDURE

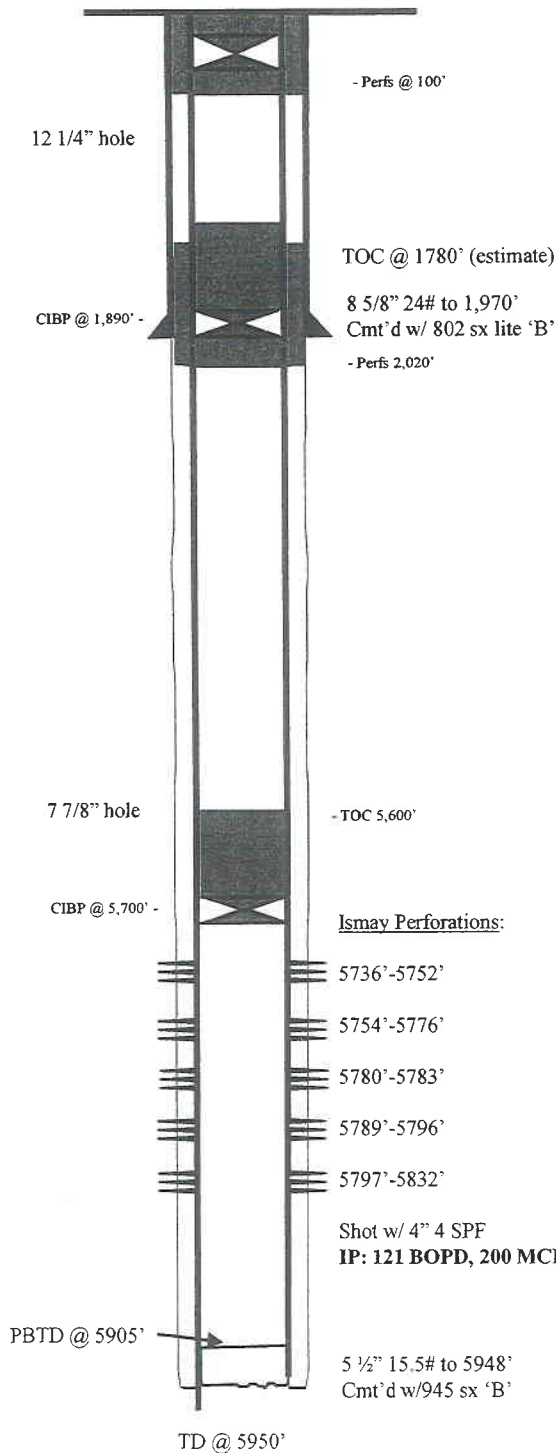
1. MI RU PU. ND WH and NU BOP.
2. POOH and lay down rods.
3. TOOH w/tubing, PU bit and scraper, TIH to 5,720'.
4. POOH and PU CIBP, set at 5,700'.
5. Drop 100' of cement on plug (24 sxs).
6. Pressure test csg . to 1,000 psi.
7. RIH w/3-1/8" HSC, perf 3 holes at 2,020', establish pmp in rate.
8. TIH w/5-1/2" CIBP, set at 1,970', mix and pump 100 sxs, cls B cmt from 2,020' – 1,820', leaving 17 sxs (150') on top of CR.
9. Perf @ 100'.
10. RU cementers, squeeze 10 sxs cement for surface plug to completely plug the hole.
11. Cap casing string with steel plate. Clean off location. Reclaim location and install P&A marker.

PROPOSED CITATION OIL AND GAS CORPORATION WELLBORE DIAGRAM AND INFORMATION

Well Name: Havasu Federal 12-19A
Date: 03/24/11 SKV
County: Cheyenne

Field: Kachina Unit
Location: SWNW Sec. 19, T38S-R24E
State: Colorado

Surface:	SWNW Sec.19 T38S R24E San Juan County, UT
Completed:	11/27/88
Elevation:	5115'
KB:	5127.5'
API #:	43-037-31459



CASING DETAIL

Size	Weight	Grade	Depth
8 5/8"	24#	K-55	1,970'
5 1/2"	15.5#	K-55	5948'

WELL HISTORY:

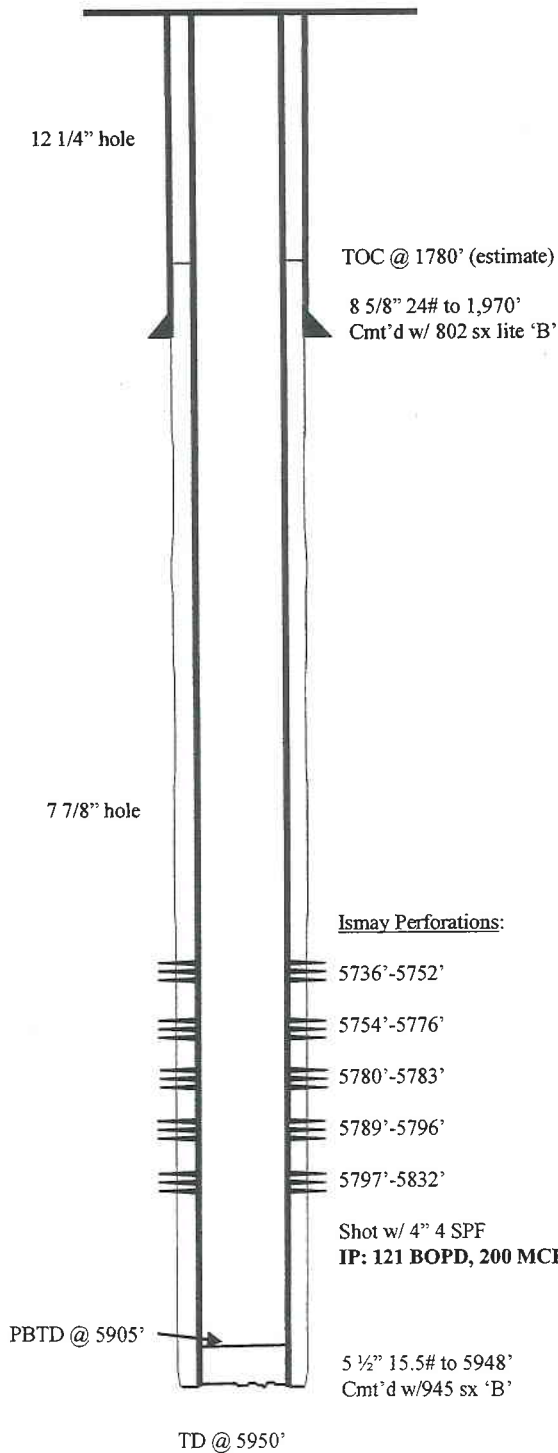
08/1988: Drill and complete
07/1989: Install pumping unit and rods
12/1991: Gypban soak: Break down perfs with acid & SAP tool; pump scale inhibitor squeeze matrix acid job; return well to production
07/1992: Pump scale inhibitor squeeze down hole back side
02/1994: Replace 2-7/8" tbg, return well to production
11/1999: cleanout, replace tubing and RTP
06/2004: Replace parted rod 7/8"
01/2005: Test well w/sub pump
01/2007: PUP pump / ran bit & scraper and SI

CITATION OIL AND GAS CORPORATION WELLBORE DIAGRAM AND INFORMATION

Well Name: Havasu Federal 12-19A
Date: 09/01/2009
County: Cheyenne

Field: Kachina Unit
Location: SWNW Sec. 19, T38S-R24E
State: Colorado

Surface:	SWNW Sec.19 T38S R24E San Juan County, UT
Completed:	11/27/88
Elevation:	5115'
KB:	5127.5'
API #:	43-037-31459



CASING DETAIL			
Size	Weight	Grade	Depth
8 5/8"	24#	K-55	1,970'
5 1/2"	15.5#	K-55	5948'

WELL HISTORY:

08/1988: Drill and complete
 07/1989: Install pumping unit and rods
 12/1991: Gypban soak: Break down perfs with acid & SAP tool; pump scale inhibitor squeeze matrix acid job; return well to production
 07/1992: Pump scale inhibitor squeeze down hole back side
 02/1994: Replace 2-7/8" tbg, return well to production
 11/1999: cleanout, replace tubing and RTP
 06/2004: Replace parted rod 7/8"
 01/2005: Test well w/sub pump
 01/2007: PUP pump / ran bit & scraper and SI

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER _____

2. NAME OF OPERATOR:
Citation Oil & Gas Corp.

3. ADDRESS OF OPERATOR: P O Box 690688 CITY Houston STATE TX ZIP 77269-0688 PHONE NUMBER: (281) 891-1576

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2520' FNL & 200' FWL COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 19 38S 24E STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:
Federal UTU56186

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:
Havasu Federal 12-19A

9. API NUMBER:
4303731459

10. FIELD AND POOL, OR WILDCAT:
Kachina (Ismay)

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Status Update
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

In response to your denial of continued shut in status, Citation Oil & Gas Corp. will plug this well as approved by your office 4/4/2011 and BLM 4/8/2011. A copy of the approved Notices of Intent to plug sundries, procedures and wellbore diagrams are attached for your review.

Accepted by the
Utah Division of
Oil, Gas and Mining
For Record Only

NAME (PLEASE PRINT) Debra Harris

TITLE Regulatory Compliance Coordinator

SIGNATURE

DATE 4/27/2011

(This space for State use only)

RECEIVED

MAY 02 2011

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

54 Copy
FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-56186
2. NAME OF OPERATOR: Citation Oil & Gas Corp.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P O Box 690688 CITY Houston STATE TX ZIP 77269I		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (281) 891-1565		8. WELL NAME and NUMBER: Havasu Federal 12-19A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2520' FNL & 200' FWL COUNTY: San Juan QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 19 38S 24E STATE: UTAH		9. API NUMBER: 4303731459
		10. FIELD AND POOL, OR WILDCAT: Kachina

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Citation Oil & Gas Corp. requests permission to plug and abandon the referenced well with the attached procedure.

RECEIVED

MAY 02 2011

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Bridget Lisenbe TITLE Permitting Analyst
SIGNATURE Bridget Lisenbe DATE 3/28/2011

(This space for State use only)

Accepted by the
Utah Division of
Oil, Gas and Mining

Federal Approval Of This
Action Is Necessary

RECEIVED

MAR 29 2011

DIV. OF OIL, GAS & MINING

PLUG AND ABANDON PROCEDURE

PROJECT: Plug and Abandon the Havasu Federal 12-19A in Kachina Field

PRESENT FORMATION AND COMPLETION: Ismay Formation

TUBING: 2-7/8" J-55 EUE 6.5# 8rd

MISC.: _____

PROCEDURE

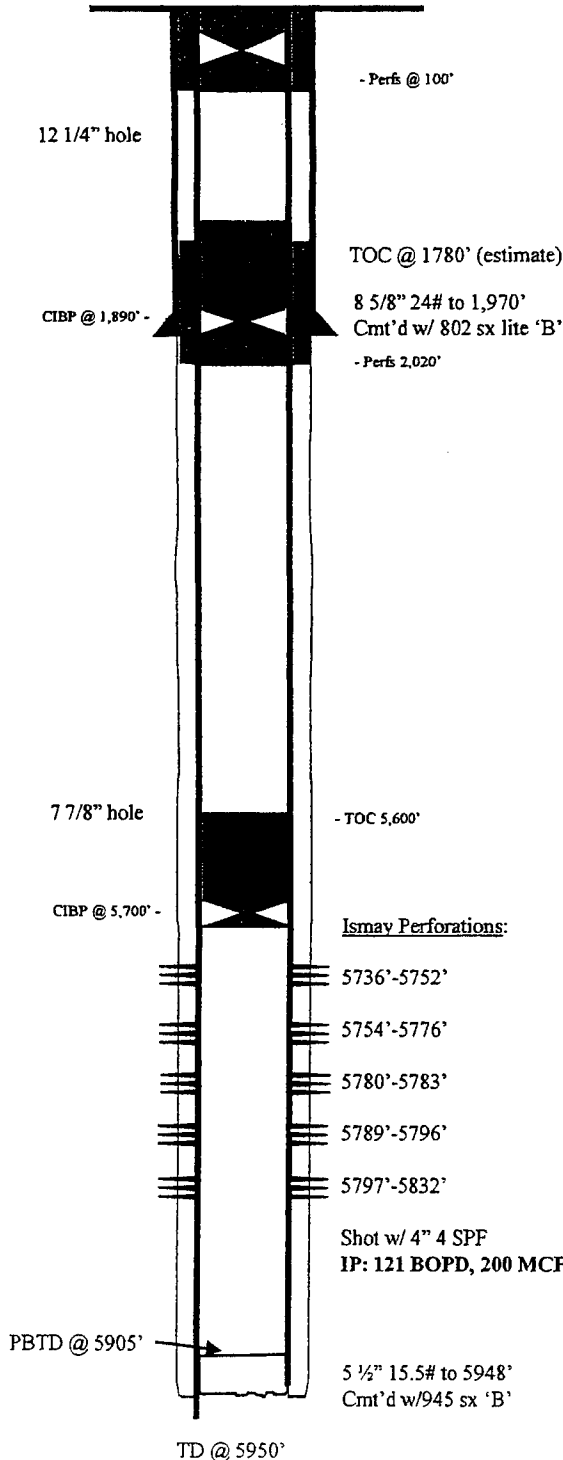
1. MI RU PU. ND WH and NU BOP.
2. POOH and lay down rods.
3. TOO H w/tubing, PU bit and scraper, TIH to 5,720'.
4. POOH and PU CIBP, set at 5,700'.
5. Drop 100' of cement on plug (24 sxs).
6. Pressure test csg . to 1,000 psi.
7. RIH w/3-1/8" HSC, perf 3 holes at 2,020', establish pmp in rate.
8. TIH w/5-1/2" CIBP, set at 1,970', mix and pump 100 sxs, cls B cmt from 2,020' – 1,820', leaving 17 sxs (150') on top of CR.
9. Perf @ 100'.
10. RU cementers, squeeze 10 sxs cement for surface plug to completely plug the hole.
11. Cap casing string with steel plate. Clean off location. Reclaim location and install P&A marker.

PROPOSED CITATION OIL AND GAS CORPORATION WELLBORE DIAGRAM AND INFORMATION

Well Name: Havasu Federal 12-19A
Date: 03/24/11 SKV
County: Cheyenne

Field: Kachina Unit
Location: SWNW Sec. 19, T38S-R24E
State: Colorado

Surface:	SWNW Sec.19 T38S R24E San Juan County, UT
Completed:	11/27/88
Elevation:	5115'
KB:	5127.5'
API #:	43-037-31459



CASING DETAIL			
Size	Weight	Grade	Depth
8 5/8"	24#	K-55	1,970'
5 1/2"	15.5#	K-55	5948'

WELL HISTORY:

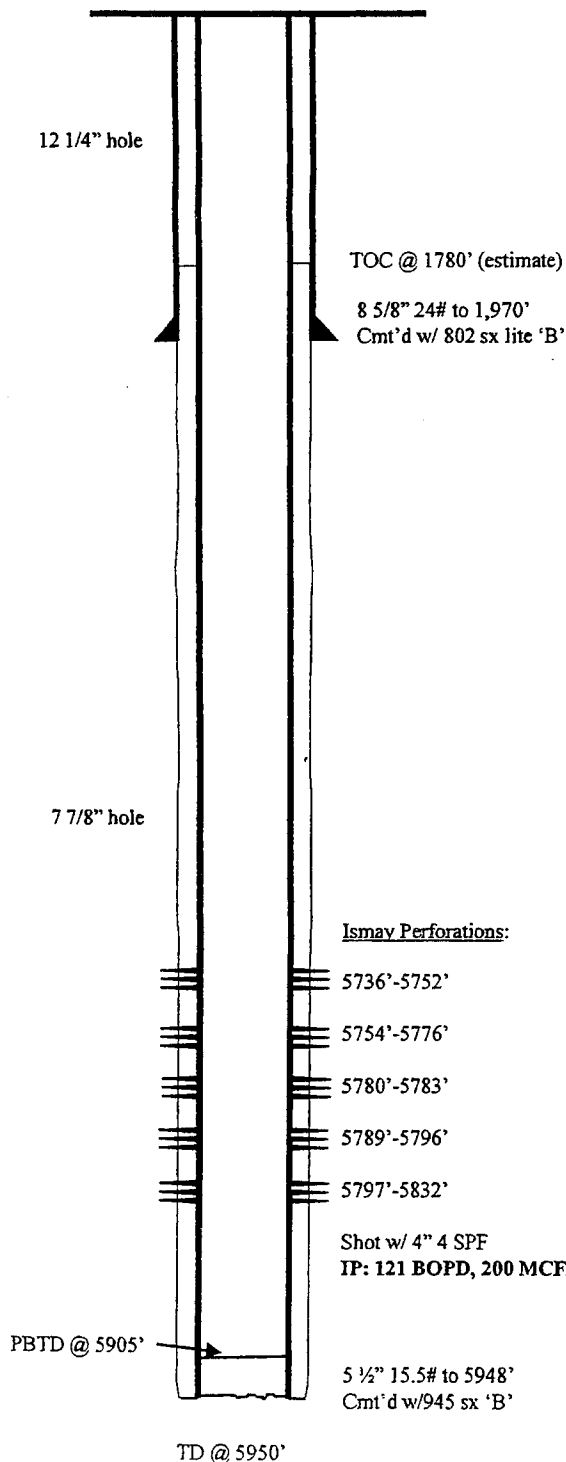
08/1988: Drill and complete
07/1989: Install pumping unit and rods
12/1991: Gypban soak: Break down perfs with acid & SAP tool; pump scale inhibitor squeeze matrix acid job; return well to production
07/1992: Pump scale inhibitor squeeze down hole back side
02/1994: Replace 2-7/8" tbg, return well to production
11/1999: cleanout, replace tubing and RTP
06/2004: Replace parted rod 7/8"
01/2005: Test well w/sub pump
01/2007: PUP pump / ran bit & scraper and SI

CITATION OIL AND GAS CORPORATION WELLBORE DIAGRAM AND INFORMATION

Well Name: Havasu Federal 12-19A
Date: 09/01/2009
County: Cheyenne

Field: Kachina Unit
Location: SWNW Sec. 19, T38S-R24E
State: Colorado

Surface:	SWNW Sec.19 T38S R24E San Juan County, UT
Completed:	11/27/88
Elevation:	5115'
KB:	5127.5'
API #:	43-037-31459



CASING DETAIL

Size	Weight	Grade	Depth
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 07/1989: Install pumping unit and rods
 12/1991: Gypban soak: Break down perms with acid & SAP tool; pump scale inhibitor squeeze matrix acid job; return well to production
 07/1992: Pump scale inhibitor squeeze down hole back side
 02/1994: Replace 2-7/8" tbg, return well to production
 11/1999: cleanout, replace tubing and RTP
 06/2004: Replace parted rod 7/8"
 01/2005: Test well w/sub pump
 01/2007: PUP pump / ran bit & scraper and SI

Ismap Perforations:

5736'-5752'
 5754'-5776'
 5780'-5783'
 5789'-5796'
 5797'-5832'

Shot w/ 4" 4 SPF
 IP: 121 BOPD, 200 MCFD, 3 BWPD

6. If Indian, Allottee or Tribe Name

PO. 17388.1

7. If Unit of CA/Agreement, Name and/or No.

☒ Oil Well ☐ Gas Well ☒ Other

8. Well Name and No.
Havasu Federal 12-19A

9. API Well No.
4303731459

3b. Phone No. (include area code)
(281) 891-1565

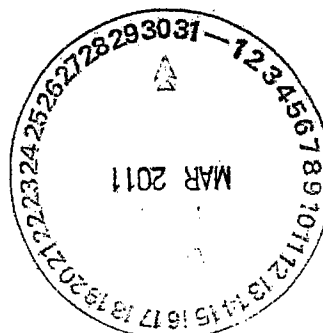
10. Field and Pool or Exploratory Area
Kachina

11. Country or Parish, State
San Juan, Utah

TYPE OF ACTION

☐ Water Shut-Off☐ Well Integrity☐ Other☐ **Water Disposal**

Citation Oil & Gas Corp. requests permission to plug and abandon the referenced well with the attached procedure.



Title Permitting Analyst

Date 03/28/2011

Title	Field Office Manager Moab Field Office
-------	---

Date _____

Office

(Instructions on page 2)

CONDITIONS OF APPROVAL ATTACHED

Notice of Intent to Abandon
Citation Oil & Gas Corp.
Havasu Federal 12-19A
Lease UTU-56186
Section 19, T38S, R24E
San Juan County, Utah

CONDITIONS OF APPROVAL

Plugging

1. Notify Jeff Brown (435-587-1525 or 435-4459-4886) of the BLM Monticello Field Office at least 24-hours prior to starting plugging operations.
2. Circulate hole with gel-base fluid mixed at 9 lb/gal. This may be done after setting cement on the CIBP at 5669' (Step 5 of the procedure).
3. Within 30-days of plugging the well, submit a subsequent report of abandonment on a sundry notice form. The report shall describe all work that was done. Include the depths of all cement and mechanical plugs, the type and volume of cement used, the type and volume of displacement fluid used, perforations, casing leaks, tight spots, pressure tests, water flows, whether casing was pulled, any logging that was done, any unusual well-bore conditions, etc.
4. Should you have any questions regarding this approval, please call Eric Jones (435-259-2117) of the BLM Moab Field Office.

Reclamation

1. The operator will be responsible for locating, fencing, as appropriate, and protecting the cultural sites as identified and stipulated during the APD approval process using permitted persons to assure that cultural resources are not disturbed during reclamation activities. Persons retained by the operator for this purpose shall contact Laird Naylor, Monticello Field Office Archaeologist (435-587-1529) prior to conducting any records review or field work.
2. Remove all equipment and debris.
3. Remove all flow lines from well pad location.
4. Purge and seal buried flow lines from the location to the facility that are to be abandoned in place.
5. Remove any crushed rock from the access road and well pad used to provide all weather access. This rock is to be placed on other field roads as appropriate.

Havasu Federal 12-19, Conditions of Approval, Reclamation, Continued

6. Recontour the location and access road to the approximate original contour.
7. Evenly spread reserved top soil.
8. Prior to reseeding, all disturbed areas including the access road will be scarified and left with a rough surface. Rip six inches deep with rips 18 inches apart along the contour.
9. Drill or broadcast the following seed mix:

Species	Variety or Cultivator	PLS/A
Fourwing saltbush	<i>Atriplex canescens</i>	2.0
Shadscale	<i>Atriplex confertifolia</i>	1.0
Winterfat	<i>Eurotia lanata</i>	2.0
Alkali sacaton	<i>Sporobolus airoides</i>	3.0
Indian ricegrass	<i>Oryzopsis hymenoides</i>	3.0
Galleta grass	<i>Hilaria jamesii</i>	3.0
Scarlet globemallow or	<i>Sphaeralcea coccinea</i>	1.0
Cicer milkvetch	<i>Astragalus sabulosus</i>	1.0

The seeding rate above is for drilling. If seed is broadcast the seeding rate shall be doubled and the seed covered with some type of drag.

10. Dirt work and seeding operations will be completed between October 15 and November 30.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER _____

2. NAME OF OPERATOR:
Citation Oil & Gas Corp.

3. ADDRESS OF OPERATOR: PHONE NUMBER:
P O Box 690688 CITY Houston STATE TX ZIP 77269-0688 (281) 891-1576

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2520' FNL & 200' FWL

5. LEASE DESIGNATION AND SERIAL NUMBER:
Federal UTU56186

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:
Havasu Federal 12-19A

9. API NUMBER:
43-037-31459

10. FIELD AND POOL, OR WILDCAT:
Kachina (Tsmay)

COUNTY: San Juan

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Retain in shut in status
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Citation Oil & Gas Corp. requests approval to retain this well in an inactive status pending reactivation and for monitoring water injection efficiency inside the unit. The well is economical to produce; however it was shut-in due to possible communication with offset producers.

NAME (PLEASE PRINT) Debra Harris

TITLE Regulatory Compliance Coordinator

SIGNATURE *Debra Harris*

DATE 3/24/2011

(This space for State use only)

CTR

REQUEST DENIED
Utah Division of
Oil, Gas and Mining

Date: 4/4/2011

By: *[Signature]* (See Instructions on Reverse Side)

* insufficient information to approve request
see 2644-2-36

RECEIVED

MAR 28 2011

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-56186
2. NAME OF OPERATOR: Citation Oil & Gas Corp.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P O Box 690688 CITY Houston STATE TX ZIP 772691		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2520' FNL & 200' FWL		8. WELL NAME and NUMBER: Havasu Federal 12-19A
5. PHONE NUMBER: (281) 891-1565		9. API NUMBER: 4303731459
6. COUNTY: San Juan		10. FIELD AND POOL, OR WILDCAT: Kachina

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 19 38S 24E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
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	<input type="checkbox"/> CHANGE TUBING	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 10/27/2011	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Citation Oil & Gas Corp. MIRU on 10/18/2011 OK by J Brown w/ Utah BLM to set 1st retainer & start plug #1 f/ 5688' 10/24/11. CR @ 5688', Plug #1 - mix & pmp 24 sxs, 15.6#, 1.18 yield = 28.32 cuft Class B cmt f/ 5688' - 5477', TOC @ 5533'. Jeff Brown w/ BLM on loc. Mud f/ 5473' - 2110' RIH w/ 3 1/8" HSC gun & shoot 3 perfs @ 2020'. Set 5 1/2" DHS CR @ 1993', ok by J Brown w/ BLM. Plug #2 - mix & pmp 26 sxs, Class B cmt f/ 1993' - 1764' TOC. Circ hole w/ mud 1690' - surface. RIH w/ 3 1/8" HSC gun & shoot 3 holes @ 100'. Plug #3 - mix & pmp 34 sxs, Class B cmt f/ 100' - 0' TOC. Jeff Brown w/ BLM on loc. McGuire H2S trailer on loc. RDMO on 10/27/2011. Well P&A'd on 10/27/2011.

NAME (PLEASE PRINT) <u>Kimberly Moorhead</u>	TITLE <u>Completion Analyst</u>
SIGNATURE <u><i>Kimberly Moorhead</i></u>	DATE <u>1/18/2012</u>

(This space for State use only)

RECEIVED
FEB 03 2012
DIV. OF OIL, GAS & MINING

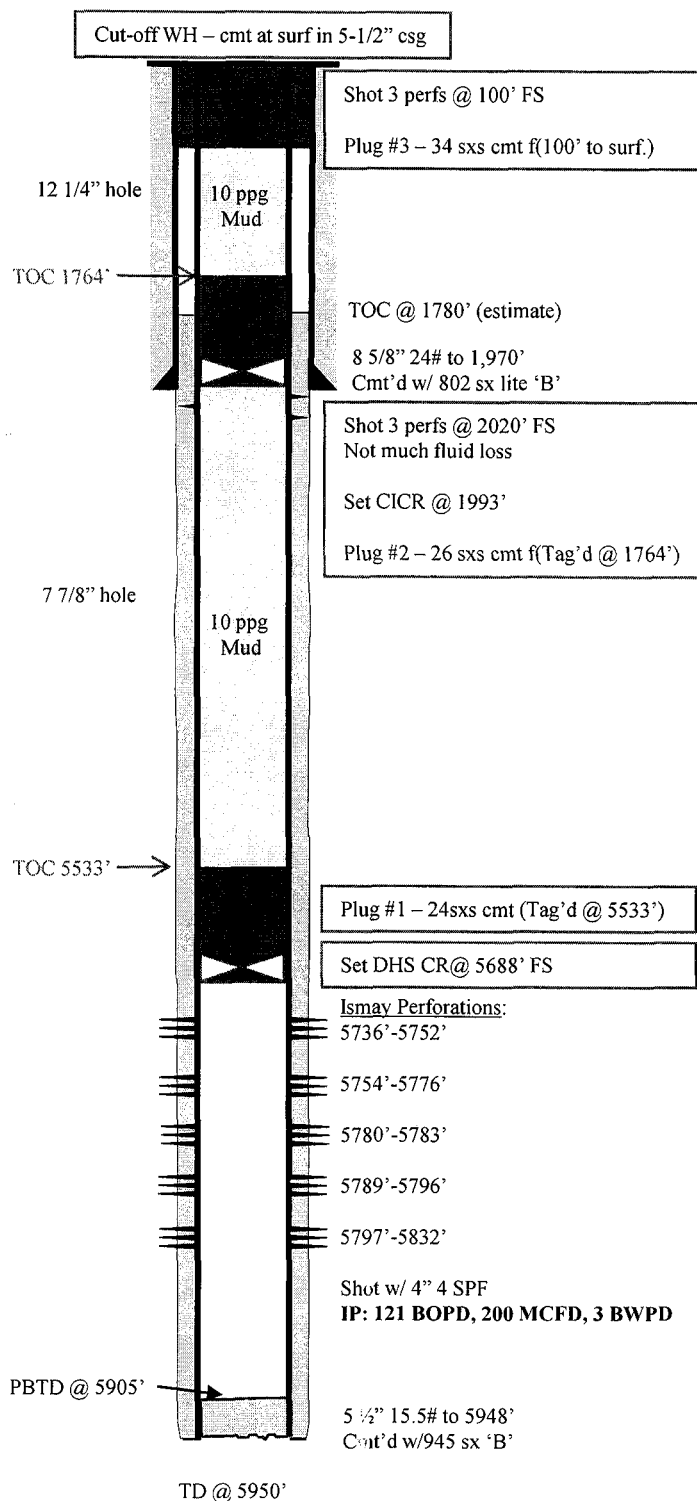
CITATION OIL AND GAS CORPORATION

WELLBORE DIAGRAM AND INFORMATION

Well Name: Havasu Federal 12-19A
Date: 10/19/11 (P&A'd)
County: Cheyenne

Field: Kachina Unit
Location: SWNW Sec. 19, T38S-R24E
State: Colorado

Surface: SWNW Sec.19 T38S R24E
 San Juan County, UT
Completed: 11/27/88
Elevation: 5115'
KB: 5127.5'
API #: 43-037-31459



CASING DETAIL

Size	Weight	Grade	Depth
8 5/8"	24#	K-55	1,970'
5 1/2"	15.5#	K-55	5948'

WELL HISTORY:

08/1988: Drill and complete
 07/1989: Install pumping unit and rods
 12/1991: Gypban soak: Break down perms with acid & SAP tool; pump scale inhibitor squeeze matrix acid job; return well to production
 07/1992: Pump scale inhibitor squeeze down hole back side
 02/1994: Replace 2-7/8" tbg, return well to production
 11/1999: cleanout, replace tubing and RTP
 06/2004: Replace parted rod 7/8"
 01/2005: Test well w/sub pump
 01/2007: PUP pump / ran bit & scraper and SI
 10/2011: P&A well